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POINT 2011: ENDF/B-VII.1 Beta2 Temperature Dependent Cross Section Library

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Overview

This report is one in the series of “POINT” reports that over the years have presented temperature dependent cross sections for the then current version of ENDF/B. In each case I have used my personal computer at home and publicly available data and codes

:

- 1) publicly available nuclear data (the current ENDF/B data, available on-line at the National Nuclear Data Center, Brookhaven National Laboratory <http://www.nndc.bnl.gov/>) and,
- 2) publicly available computer codes (the current PREPRO codes, available on-line at the Nuclear Data Section, IAEA, Vienna, Austria <http://www-nds.iaea.or.at/ndspub/endl/prepro/>) and,
- 3) My own personal computer located in my home.

I have used these in combination to produce the temperature dependent cross sections used in applications and presented in this report. I should mention that today anyone with a personal computer can produce these results.

Introduction

The latest ENDF/B-VII.1 beta2 data library was recently and is now freely available through the National Nuclear Data Center (NNDC), Brookhaven National Laboratory. This release completely supersedes all preceding releases of ENDF/B.

WARNING: The final ENDF/B-VII.1 will not be distributed until about the end of 2011; this will give us time to test the present VII.1 beta2 library. Throughout the remainder of this report I will refer to VII.1, as shorthand in actually referring to VI.1 beta2 – I can only hope this does not result in any confusion.

As distributed the ENDF/B-VII.1 data includes cross sections represented in the form of a combination of resonance parameters and/or tabulated energy dependent cross sections, nominally at 0 Kelvin temperature.

For use in our applications the ENDF/B-VII.1 library has been processed into cross sections at eight neutron reactor like temperatures, between 0 and 2100 Kelvin, in steps of 300 Kelvin (the exception being 293.6 Kelvin, for exact room temperature at 20 Celsius). It has also been processed to five astrophysics like temperatures, 1, 10, 100 eV, 1 and 10 keV. For reference purposes, 300 Kelvin is approximately 1/40 eV, so that 1 eV is approximately 12,000 Kelvin. At each temperature the cross sections are tabulated and linearly interpolable in energy.

All results are in the computer independent ENDF-6 character format [R2], which allows the data to be easily transported between computers. In its processed form the POINT 2011 library is approximately 16 gigabyte in size and is distributed on one compressed DVDs (see, below for the details of the contents of each DVD).

POINT 2011: ENDF/B-VII.1 beta2

ENDF/B-VII.1 beta2 (I will refer to it as VII.1) which was recently released by CSEWG, includes 418 evaluations, compared to the earlier VII.0 which included 393 evaluations. Of the 418 evaluations in VII.1, 391 are evaluations for the same materials as in VII.0, and 27 are new evaluations. Two VII.0 evaluation for naturally occurring elemental mixtures that were included in VII.0, namely, **23-V – Nat** and **30-Zn-Nat**, have been dropped and replaced by isotopic evaluations in VII.1.

For use in applications it is obviously useful to know what has and has not changed between the older ENDF/B-VII.0 and newer VII.1 data libraries; below is a summary. Based on my character-by-character comparisons of VII.1 and VII.0 for all MF=1 through 6 data (data that can directly affect neutron transport), I have found (see Appendix D for details),

New evaluation..... 27
Identical..... 153
Modified..... 238
Total.....418

New evaluations in VII.1, not in VII.0 (27 Evaluations); note isotopes of V and Zn

| | | | | |
|----------|-----------|-----------|-----------|------------|
| 23-V -50 | 30-Zn-68 | 91-Pa-230 | 97-Bk-245 | 99-Es-251 |
| 23-V -51 | 30-Zn-70 | 92-U -230 | 97-Bk-246 | 99-Es-252 |
| 30-Zn-64 | 73-Ta-180 | 92-U -231 | 97-Bk-247 | 99-Es-254m |
| 30-Zn-65 | 74-W -180 | 93-Np-234 | 97-Bk-248 | |
| 30-Zn-66 | 90-Th-231 | 95-Am-240 | 98-Cf-246 | |
| 30-Zn-67 | 91-Pa-229 | 96-Cm-240 | 98-Cf-248 | |

Evaluations that are Identical in VII.0 and VII.1 (153 Evaluations)

| | | | | | |
|-----------|----------|------------|------------|------------|-----------|
| 1-H -2 | 28-Ni-59 | 39-Y -90 | 49-In-113 | 54-Xe-128 | 63-Eu-151 |
| 2-He-3 | 31-Ga-71 | 39-Y -91 | 49-In-115 | 54-Xe-129 | 63-Eu-154 |
| 3-Li-7 | 32-Ge-70 | 40-Zr-95 | 50-Sn-112 | 54-Xe-132 | 63-Eu-155 |
| 5-B -10 | 32-Ge-72 | 41-Nb-94 | 50-Sn-114 | 54-Xe-133 | 63-Eu-156 |
| 5-B -11 | 32-Ge-73 | 41-Nb-95 | 50-Sn-116 | 54-Xe-135 | 65-Tb-159 |
| 6-C -Nat | 32-Ge-74 | 42-Mo-98 | 50-Sn-117 | 54-Xe-136 | 66-Dy-161 |
| 7-N -15 | 32-Ge-76 | 42-Mo-99 | 50-Sn-118 | 55-Cs-134 | 68-Er-162 |
| 8-O -17 | 34-Se-74 | 42-Mo-100 | 50-Sn-119 | 55-Cs-135 | 68-Er-164 |
| 12-Mg-24 | 34-Se-76 | 44-Ru-96 | 50-Sn-120 | 55-Cs-136 | 68-Er-167 |
| 12-Mg-25 | 34-Se-77 | 44-Ru-98 | 50-Sn-122 | 55-Cs-137 | 68-Er-168 |
| 12-Mg-26 | 34-Se-78 | 44-Ru-99 | 50-Sn-123 | 56-Ba-130 | 71-Lu-175 |
| 13-Al-27 | 34-Se-79 | 44-Ru-102 | 50-Sn-124 | 56-Ba-132 | 71-Lu-176 |
| 14-Si-28 | 34-Se-80 | 44-Ru-103 | 50-Sn-126 | 56-Ba-134 | 73-Ta-182 |
| 18-Ar-36 | 34-Se-82 | 44-Ru-104 | 51-Sb-121 | 56-Ba-135 | 79-Au-197 |
| 18-Ar-38 | 35-Br-79 | 44-Ru-105 | 51-Sb-124 | 56-Ba-136 | 82-Pb-204 |
| 19-K -40 | 35-Br-81 | 44-Ru-106 | 51-Sb-125 | 56-Ba-138 | 83-Bi-209 |
| 20-Ca-40 | 36-Kr-80 | 45-Rh-105 | 52-Te-120 | 56-Ba-140 | 88-Ra-223 |
| 20-Ca-42 | 36-Kr-82 | 46-Pd-102 | 52-Te-122 | 57-La-138 | 88-Ra-224 |
| 20-Ca-43 | 36-Kr-83 | 46-Pd-104 | 52-Te-123 | 58-Ce-142 | 88-Ra-225 |
| 20-Ca-44 | 36-Kr-84 | 46-Pd-105 | 52-Te-125 | 58-Ce-144 | 88-Ra-226 |
| 20-Ca-46 | 37-Rb-85 | 46-Pd-106 | 52-Te-127m | 59-Pr-141 | 94-Pu-241 |
| 20-Ca-48 | 38-Sr-86 | 46-Pd-107 | 52-Te-128 | 59-Pr-142 | 94-Pu-243 |
| 26-Fe-58 | 38-Sr-87 | 46-Pd-108 | 52-Te-129m | 59-Pr-143 | 95-Am-243 |
| 27-Co-58 | 38-Sr-88 | 46-Pd-110 | 52-Te-130 | 61-Pm-148m | |
| 27-Co-58m | 38-Sr-89 | 47-Ag-107 | 53-I -129 | 62-Sm-151 | |
| 27-Co-59 | 38-Sr-90 | 47-Ag-110m | 53-I -131 | 62-Sm-152 | |

Evaluations Modified between VII.0 and VII.1 (238 Evaluations)

| | | | | | |
|----------|------------|-----------|------------|-----------|------------|
| 1-H -1 | 28-Ni-62 | 48-Cd-116 | 61-Pm-151 | 74-W -186 | 93-Np-237 |
| 1-H -3 | 28-Ni-64 | 50-Sn-113 | 62-Sm-144 | 75-Re-185 | 93-Np-238 |
| 2-He-4 | 29-Cu-63 | 50-Sn-115 | 62-Sm-147 | 75-Re-187 | 93-Np-239 |
| 3-Li-6 | 29-Cu-65 | 50-Sn-125 | 62-Sm-148 | 77-Ir-191 | 94-Pu-236 |
| 4-Be-7 | 31-Ga-69 | 51-Sb-123 | 62-Sm-149 | 77-Ir-193 | 94-Pu-237 |
| 4-Be-9 | 33-As-74 | 51-Sb-126 | 62-Sm-150 | 80-Hg-196 | 94-Pu-238 |
| 7-N -14 | 33-As-75 | 52-Te-124 | 62-Sm-153 | 80-Hg-198 | 94-Pu-239 |
| 8-O -16 | 36-Kr-78 | 52-Te-126 | 62-Sm-154 | 80-Hg-199 | 94-Pu-240 |
| 9-F -19 | 36-Kr-85 | 52-Te-132 | 63-Eu-152 | 80-Hg-200 | 94-Pu-242 |
| 11-Na-22 | 36-Kr-86 | 53-I -127 | 63-Eu-153 | 80-Hg-201 | 94-Pu-244 |
| 11-Na-23 | 37-Rb-86 | 53-I -130 | 63-Eu-157 | 80-Hg-202 | 94-Pu-246 |
| 14-Si-29 | 37-Rb-87 | 53-I -135 | 64-Gd-152 | 80-Hg-204 | 95-Am-241 |
| 14-Si-30 | 38-Sr-84 | 54-Xe-123 | 64-Gd-153 | 82-Pb-206 | 95-Am-242 |
| 15-P -31 | 39-Y -89 | 54-Xe-124 | 64-Gd-154 | 82-Pb-207 | 95-Am-242m |
| 16-S -32 | 40-Zr-90 | 54-Xe-126 | 64-Gd-155 | 82-Pb-208 | 95-Am-244 |
| 16-S -33 | 40-Zr-91 | 54-Xe-130 | 64-Gd-156 | 89-Ac-225 | 95-Am-244m |
| 16-S -34 | 40-Zr-92 | 54-Xe-131 | 64-Gd-157 | 89-Ac-226 | 96-Cm-241 |
| 16-S -36 | 40-Zr-93 | 54-Xe-134 | 64-Gd-158 | 89-Ac-227 | 96-Cm-242 |
| 17-Cl-35 | 40-Zr-94 | 55-Cs-133 | 64-Gd-160 | 90-Th-227 | 96-Cm-243 |
| 17-Cl-37 | 40-Zr-96 | 56-Ba-133 | 65-Tb-160 | 90-Th-228 | 96-Cm-244 |
| 18-Ar-40 | 41-Nb-93 | 56-Ba-137 | 66-Dy-156 | 90-Th-229 | 96-Cm-245 |
| 19-K -39 | 42-Mo-92 | 57-La-139 | 66-Dy-158 | 90-Th-230 | 96-Cm-246 |
| 19-K -41 | 42-Mo-94 | 57-La-140 | 66-Dy-160 | 90-Th-232 | 96-Cm-247 |
| 21-Sc-45 | 42-Mo-95 | 58-Ce-136 | 66-Dy-162 | 90-Th-233 | 96-Cm-248 |
| 22-Ti-46 | 42-Mo-96 | 58-Ce-138 | 66-Dy-163 | 90-Th-234 | 96-Cm-249 |
| 22-Ti-47 | 42-Mo-97 | 58-Ce-139 | 66-Dy-164 | 91-Pa-231 | 96-Cm-250 |
| 22-Ti-48 | 43-Tc-99 | 58-Ce-140 | 67-Ho-165 | 91-Pa-232 | 97-Bk-249 |
| 22-Ti-49 | 44-Ru-100 | 58-Ce-141 | 67-Ho-166m | 91-Pa-233 | 97-Bk-250 |
| 22-Ti-50 | 44-Ru-101 | 58-Ce-143 | 68-Er-166 | 92-U -232 | 98-Cf-249 |
| 24-Cr-50 | 45-Rh-103 | 60-Nd-142 | 68-Er-170 | 92-U -233 | 98-Cf-250 |
| 24-Cr-52 | 47-Ag-109 | 60-Nd-143 | 72-Hf-174 | 92-U -234 | 98-Cf-251 |
| 24-Cr-53 | 47-Ag-111 | 60-Nd-144 | 72-Hf-176 | 92-U -235 | 98-Cf-252 |
| 24-Cr-54 | 48-Cd-106 | 60-Nd-145 | 72-Hf-177 | 92-U -236 | 98-Cf-253 |
| 25-Mn-55 | 48-Cd-108 | 60-Nd-146 | 72-Hf-178 | 92-U -237 | 98-Cf-254 |
| 26-Fe-54 | 48-Cd-110 | 60-Nd-147 | 72-Hf-179 | 92-U -238 | 99-Es-253 |
| 26-Fe-56 | 48-Cd-111 | 60-Nd-148 | 72-Hf-180 | 92-U -239 | 99-Es-254 |
| 26-Fe-57 | 48-Cd-112 | 60-Nd-150 | 73-Ta-181 | 92-U -240 | 99-Es-255 |
| 28-Ni-58 | 48-Cd-113 | 61-Pm-147 | 74-W -182 | 92-U -241 | 100-Fm-255 |
| 28-Ni-60 | 48-Cd-114 | 61-Pm-148 | 74-W -183 | 93-Np-235 | |
| 28-Ni-61 | 48-Cd-115m | 61-Pm-149 | 74-W -184 | 93-Np-236 | |

For details of VII.1 versus VII.0 see the below tables in Appendices B and D.

PREPRO 2010 Codes

In addition to the changes in the ENDF/B-VII.1 evaluations, it should be noted that between the last version of this report, where the PREPRO 2007 codes were used, and the current version, where the PREPRO 2010 codes were used, there have been major improvements in the ENDF/B Pre-processing codes (PREPRO). The major improvements were both in terms of improving the basic methods used by the codes and in terms of incorporating the latest ENDF-6 Formats and Procedures used by the current evaluations. The result is more accurate cross section data throughout the POINT 2011 library.

WARNING – due to recent changes in ENDF-6 Formats and Procedures only the latest version of the ENDF/B Pre-processing codes, namely PREPRO 2010, can be used to accurately process all current ENDF/B-VII evaluations. If you fail to heed this warning and you use any earlier versions of these codes the results will be inaccurate.

The PREPRO 2010 codes run on virtually any computer, and will soon be available FREE on-line from the Nuclear Data Section, IAEA, Vienna, Austria, website at,

<http://www-nds.iaea.org/ndspub/endl/prepro/>

Data Processing

As distributed the original evaluated data includes cross sections represented in the form of a combination of resonance parameters and/or tabulated energy dependent cross sections, nominally at 0 Kelvin temperature. For use in applications, this data has been processed using the 2010 version of the ENDF/B Pre-processing codes (PREPRO 2010) to produce temperature dependent, linearly interpolable in energy, tabulated cross sections, in the ENDF-6 format.

For use in applications this library has been processed into the form of temperature dependent cross sections at eight neutron reactor like temperatures, between 0 and 2100 Kelvin, in steps of 300 Kelvin (the exception being 293.6 Kelvin, for exact room temperature at 20 Celsius). It has also been processed to five astrophysics like temperatures, 1, 10, 100 eV, 1 and 10 keV. For reference purposes, 300 Kelvin is approximately 1/40 eV, so that 1 eV is approximately 12,000 Kelvin. At each temperature the cross sections are tabulated and linearly interpolable in energy.

The steps required and codes used to produce room temperature, linearly interpolable tabulated cross sections, in the ENDF-6 format, are described below (the name of each code is given in parenthesis; for details of each code see reference [R3]).

Here are the steps, and PREPRO 2010 codes, used to process the data, in the order in which the codes were used.

- 1) Linearly interpolable, tabulated cross sections (**LINEAR**)
- 2) Including the resonance contribution (**RECENT**)
- 3) Doppler broaden all cross sections to temperature (**SIGMA1**)
- 4) Check data, define redundant cross sections by summation (**FIXUP**)
- 5) Update evaluation dictionary in MF/MT=1/451 (**DICTIN**)

For the "cold" (0 Kelvin) data steps 1), 2) and 4), 5) were used (no Doppler broadening). For the data at other temperatures, after steps 1) and 2), the data was Doppler broadened to each temperature using step 3), and the results were then made consistent with the ENDF/B formats and conventions using steps 4) and 5), to produce the final distributed data.

The result is linearly interpolable in energy, tabulated, temperature dependent cross sections, in the ENDF-6 format, ready to be used in applications.

Note - this processing only involved the energy dependent neutron cross sections. All other data in the evaluations, e.g., angular and energy distributions, was not affected by this processing, and is identical in all versions of the final results, i.e., it is the same in all of the directories, ORIGINAL, as well as K0 through K2100, and 1ev through 10kev, on the DVDs.

Accuracy of Results

Each of the codes described above that was used to process data to obtain tabulated, linearly interpolable in energy cross sections, processed the data to within a user defined accuracy, or allowable uncertainty. The ENDF/B Pre-processing codes (PREPRO 2010) are self-documenting, in the sense that the ENDF/B formatted output data that each code produces includes comments at the beginning of each evaluation defining the accuracy to which the cross sections were calculated. The combination of comments added by all of the codes defines the sequence and accuracy used by all of them. The accuracy is the same for all evaluations. Therefore, for exact details of the accuracy of the data, see the comments at the beginning of any evaluation. For use in POINT 2011 all cross sections were reconstructed to within an accuracy of 0.01% in the thermal range, and 0.1 % at all other energies and temperatures; this is beyond the accuracy to which this data is known, so that I assume that the data processing does not add any significant additional error to the inherent error of the data.

Contents of the Library

This library **contains** all of the evaluations in the ENDF/B-VI.1 general purpose library. A table in the appendix summarizes the contents of the ENDF/B-VII.1 general purpose library. This library contains evaluations for 418 materials (isotopes or naturally occurring elemental mixtures of isotopes).

This library **does not contain** data from special purpose ENDF/B-VII libraries, such as fission products, thermal scattering, photon interaction data. To obtain any of these special purpose libraries contact the National Nuclear Data Center, Brookhaven National Laboratory,

ENDF@bnlnd2.dne.bnl.gov

In the POINT 2011 library each evaluation is stored as a separate file. The following table defines each material and the corresponding filename. The entire library is in the computer independent ENDF-6 character format, which allows the data to be easily transported between computers. The entire library requires approximately 16 gigabyte of storage and is distributed on one DVD compressed; see below for details of the DVD.

This library contains data for some metastable materials, which are indicated by an "M" at the end of their descriptions.

The majority of these evaluations are complete, in the sense that they include all cross sections over the energy range 10^{-5} eV to at least 20 MeV. See the appendix for a list of all evaluations, plus a separate list of incomplete evaluations; there are now only a few.

The DVD single is compressed; when uncompressed you will find a single directory named POINT2011 containing fifteen (15) sub-directories,

DOCUMENT - A copy of this report in MSWord and PDF formats.
ORIGINAL - The original ENDF/B data before it was processed.
K0 - 0 Kelvin cross sections
K293.6 - 293.6 Kelvin cross sections
K600 - 600 Kelvin cross sections
K900 - 900 Kelvin cross sections
K1200 - 1200 Kelvin cross sections
K1500 - 1500 Kelvin cross sections
K1800 - 1800 Kelvin cross sections
K2100 - 2100 Kelvin cross sections
1eV - 1 eV cross sections
10eV - 10 eV cross sections
100eV - 100 eV cross sections
1keV - 1 keV cross sections
10keV - 10 keV cross sections

With the exception of DOCUMENT, each of these directories contains 419 files, one file for each of the 418 evaluation, plus one HTML file to allow interactive data retrieval. Each file is a complete ENDF/B "tape" [R2], including a starting "tape" identification line, and ending with a "tape" end line [R2]. In this form, each file can be used by a wide variety of available computer codes that treat data in the ENDF/B format, e.g., all of the PREPRO codes.

Requesting POINT 2011 Data

Please do not contact the author of this report to request this data; I do not have the resources necessary to directly respond to requests for this data. This data has been distributed and is Internationally available from nuclear data/code centers throughout the World,

- 1) Within the United States: contact the National Nuclear Data Center, Brookhaven National Laboratory, Mike Herman at, services@bnlnd2.dne.bnl.gov
- 2) Within Western Europe: contact the OECD Nuclear Energy Agency/ Data Bank (NEA/DB), Paris, France, programs@nea.fr
- 3) Otherwise: contact the Nuclear Data Section, International Atomic Energy Agency, Vienna, Austria, Alberto Mengoni at, A.Mengoni@iaea.org

Installation and Use of POINT 2011

I recommend that you,

- 1) Copy the single file from the POINT 2011 DVD to your computer,
- 2) Uncompress and un-tar the file; then delete the compressed and tar files.
- 3) You should then have one directory named POINT2011 containing all of the data
- 4) To random access the data execute (double click) POINT2011.htm.

The main POINT2011 directory will contain the fifteen (15) sub-directories, described above. These POINT 2011 directories include HTML routines to allow interactive retrieval of the data. The result will be a directory of about 16 gigabytes. To put that in perspective, today it costs less than \$0.10 U.S. to purchase, install, and maintain on-line one gigabyte of disk storage. Therefore the cost of maintaining this 16 gigabyte library on-line is trivial.

Acknowledgments

I thank **Said Mughabghab** for his detailed explanation of the use of his newly published resonance parameters [R4] in ENDF/B-VII.0 evaluations. I thank **Ramon E. Arcilla, Jr.**, of the National Nuclear Data Center (NNDC), Brookhaven National Laboratory, for supplying the original ENDF/B-VII.0, used in this project. I thank **Liam Costello**, of the Nuclear Data Section, International Atomic Energy Agency, for supplying the ENDF/B Pre-processing codes, PREPRO 2010, used in this project. I thank **Nancy Larsen, Bob MacFarlane, Maurice Greene, and Mike Dunn**, for their comparison of their cross section processing codes (SAMMY, NJOY and AMPX) against the PREPRO codes. These comparisons have led to significant improvements in the accuracy and reliability of the results produced by all four codes (SAMMY, NJOY, AMPX, PREPRO). I thank **Andre Trkov, Skip Kahler, Robert MacFarlane, Mike Herman and Dave Heinrichs** for proofreading the draft of this report and making many helpful corrections and improvements, which I incorporated in the final report.

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Appendix A: Contents of ENDF/B-VII.1 (27 new + 391 old = 418 total evaluations)

| | | | | | |
|------------|-----------|------------|------------|------------|------------|
| 1-H - 1 | 28-Ni- 62 | 44-Ru-101 | 54-Xe-131 | 64-Gd-160 | 91-Pa-232 |
| 1-H - 2 | 28-Ni- 64 | 44-Ru-102 | 54-Xe-132 | 65-Tb-159 | 91-Pa-233 |
| 1-H - 3 | 29-Cu- 63 | 44-Ru-103 | 54-Xe-133 | 65-Tb-160 | 92-U -230 |
| 2-He- 3 | 29-Cu- 65 | 44-Ru-104 | 54-Xe-134 | 66-Dy-156 | 92-U -231 |
| 2-He- 4 | 30-Zn-64 | 44-Ru-105 | 54-Xe-135 | 66-Dy-158 | 92-U -232 |
| 3-Li- 6 | 30-Zn-65 | 44-Ru-106 | 54-Xe-136 | 66-Dy-160 | 92-U -233 |
| 3-Li- 7 | 30-Zn-66 | 45-Rh-103 | 55-Cs-133 | 66-Dy-161 | 92-U -234 |
| 4-Be- 7 | 30-Zn-67 | 45-Rh-105 | 55-Cs-134 | 66-Dy-162 | 92-U -235 |
| 4-Be- 9 | 30-Zn-68 | 46-Pd-102 | 55-Cs-135 | 66-Dy-163 | 92-U -236 |
| 5-B - 10 | 30-Zn-70 | 46-Pd-104 | 55-Cs-136 | 66-Dy-164 | 92-U -237 |
| 5-B - 11 | 31-Ga- 69 | 46-Pd-105 | 55-Cs-137 | 67-Ho-165 | 92-U -238 |
| 6-C -Nat | 31-Ga- 71 | 46-Pd-106 | 56-Ba-130 | 67-Ho-166m | 92-U -239 |
| 7-N - 14 | 32-Ge- 70 | 46-Pd-107 | 56-Ba-132 | 68-Er-162 | 92-U -240 |
| 7-N - 15 | 32-Ge- 72 | 46-Pd-108 | 56-Ba-133 | 68-Er-164 | 92-U -241 |
| 8-O - 16 | 32-Ge- 73 | 46-Pd-110 | 56-Ba-134 | 68-Er-166 | 93-Np-234 |
| 8-O - 17 | 32-Ge- 74 | 47-Ag-107 | 56-Ba-135 | 68-Er-167 | 93-Np-235 |
| 9-F - 19 | 32-Ge- 76 | 47-Ag-109 | 56-Ba-136 | 68-Er-168 | 93-Np-236 |
| 11-Na- 22 | 33-As- 74 | 47-Ag-110m | 56-Ba-137 | 68-Er-170 | 93-Np-237 |
| 11-Na- 23 | 33-As- 75 | 47-Ag-111 | 56-Ba-138 | 71-Lu-175 | 93-Np-238 |
| 12-Mg- 24 | 34-Se- 74 | 48-Cd-106 | 56-Ba-140 | 71-Lu-176 | 93-Np-239 |
| 12-Mg- 25 | 34-Se- 76 | 48-Cd-108 | 57-La-138 | 72-Hf-174 | 94-Pu-236 |
| 12-Mg- 26 | 34-Se- 77 | 48-Cd-110 | 57-La-139 | 72-Hf-176 | 94-Pu-237 |
| 13-Al- 27 | 34-Se- 78 | 48-Cd-111 | 57-La-140 | 72-Hf-177 | 94-Pu-238 |
| 14-Si- 28 | 34-Se- 79 | 48-Cd-112 | 58-Ce-136 | 72-Hf-178 | 94-Pu-239 |
| 14-Si- 29 | 34-Se- 80 | 48-Cd-113 | 58-Ce-138 | 72-Hf-179 | 94-Pu-240 |
| 14-Si- 30 | 34-Se- 82 | 48-Cd-114 | 58-Ce-139 | 72-Hf-180 | 94-Pu-241 |
| 15-P - 31 | 35-Br- 79 | 48-Cd-115m | 58-Ce-140 | 73-Ta-180 | 94-Pu-242 |
| 16-S - 32 | 35-Br- 81 | 48-Cd-116 | 58-Ce-141 | 73-Ta-181 | 94-Pu-243 |
| 16-S - 33 | 36-Kr- 78 | 49-In-113 | 58-Ce-142 | 73-Ta-182 | 94-Pu-244 |
| 16-S - 34 | 36-Kr- 80 | 49-In-115 | 58-Ce-143 | 74-W -180 | 94-Pu-246 |
| 16-S - 36 | 36-Kr- 82 | 50-Sn-112 | 58-Ce-144 | 74-W -182 | 95-Am-240 |
| 17-Cl- 35 | 36-Kr- 83 | 50-Sn-113 | 59-Pr-141 | 74-W -183 | 95-Am-241 |
| 17-Cl- 37 | 36-Kr- 84 | 50-Sn-114 | 59-Pr-142 | 74-W -184 | 95-Am-242 |
| 18-Ar- 36 | 36-Kr- 85 | 50-Sn-115 | 59-Pr-143 | 74-W -186 | 95-Am-242m |
| 18-Ar- 38 | 36-Kr- 86 | 50-Sn-116 | 60-Nd-142 | 75-Re-185 | 95-Am-243 |
| 18-Ar- 40 | 37-Rb- 85 | 50-Sn-117 | 60-Nd-143 | 75-Re-187 | 95-Am-244 |
| 19-K - 39 | 37-Rb- 86 | 50-Sn-118 | 60-Nd-144 | 77-Ir-191 | 95-Am-244m |
| 19-K - 40 | 37-Rb- 87 | 50-Sn-119 | 60-Nd-145 | 77-Ir-193 | 96-Cm-240 |
| 19-K - 41 | 38-Sr- 84 | 50-Sn-120 | 60-Nd-146 | 79-Au-197 | 96-Cm-241 |
| 20-Ca- 40 | 38-Sr- 86 | 50-Sn-122 | 60-Nd-147 | 80-Hg-196 | 96-Cm-242 |
| 20-Ca- 42 | 38-Sr- 87 | 50-Sn-123 | 60-Nd-148m | 80-Hg-198 | 96-Cm-243 |
| 20-Ca- 43 | 38-Sr- 88 | 50-Sn-124 | 60-Nd-150 | 80-Hg-199 | 96-Cm-244 |
| 20-Ca- 44 | 38-Sr- 89 | 50-Sn-125 | 61-Pm-147 | 80-Hg-200 | 96-Cm-245 |
| 20-Ca- 46 | 38-Sr- 90 | 50-Sn-126 | 61-Pm-148 | 80-Hg-201 | 96-Cm-246 |
| 20-Ca- 48 | 39-Y - 89 | 51-Sb-121 | 61-Pm-148 | 80-Hg-202 | 96-Cm-247 |
| 21-Sc- 45 | 39-Y - 90 | 51-Sb-123 | 61-Pm-149 | 80-Hg-204 | 96-Cm-248 |
| 22-Ti- 46 | 39-Y - 91 | 51-Sb-124 | 61-Pm-151 | 82-Pb-204 | 96-Cm-249 |
| 22-Ti- 47 | 40-Zr- 90 | 51-Sb-125 | 62-Sm-144 | 82-Pb-206 | 96-Cm-250 |
| 22-Ti- 48 | 40-Zr- 91 | 51-Sb-126 | 62-Sm-147 | 82-Pb-207 | 97-Bk-245 |
| 22-Ti- 49 | 40-Zr- 92 | 52-Te-120 | 62-Sm-148 | 82-Pb-208 | 97-Bk-246 |
| 22-Ti- 50 | 40-Zr- 93 | 52-Te-122 | 62-Sm-149 | 83-Bi-209 | 97-Bk-247 |
| 23-V -50 | 40-Zr- 94 | 52-Te-123 | 62-Sm-150 | 88-Ra-223 | 97-Bk-248 |
| 23-V -51 | 40-Zr- 95 | 52-Te-124 | 62-Sm-151 | 88-Ra-224 | 97-Bk-249 |
| 24-Cr- 50 | 40-Zr- 96 | 52-Te-125 | 62-Sm-152 | 88-Ra-225 | 97-Bk-250 |
| 24-Cr- 52 | 41-Nb- 93 | 52-Te-126 | 62-Sm-153 | 88-Ra-226 | 98-Cf-246 |
| 24-Cr- 53 | 41-Nb- 94 | 52-Te-127m | 62-Sm-154 | 89-Ac-225 | 98-Cf-248 |
| 24-Cr- 54 | 41-Nb- 95 | 52-Te-128 | 63-Eu-151 | 89-Ac-226 | 98-Cf-249 |
| 25-Mn- 55 | 42-Mo- 92 | 52-Te-129m | 63-Eu-152 | 89-Ac-227 | 98-Cf-250 |
| 26-Fe- 54 | 42-Mo- 94 | 52-Te-130 | 63-Eu-153 | 90-Th-227 | 98-Cf-251 |
| 26-Fe- 56 | 42-Mo- 95 | 52-Te-132 | 63-Eu-154 | 90-Th-228 | 98-Cf-252 |
| 26-Fe- 57 | 42-Mo- 96 | 53-I -127 | 63-Eu-155 | 90-Th-229 | 98-Cf-253 |
| 26-Fe- 58 | 42-Mo- 97 | 53-I -129 | 63-Eu-156 | 90-Th-230 | 98-Cf-254 |
| 27-Co- 58 | 42-Mo- 98 | 53-I -130 | 63-Eu-157 | 90-Th-231 | 99-Es-251 |
| 27-Co- 58m | 42-Mo- 99 | 53-I -131 | 64-Gd-152 | 90-Th-232 | 99-Es-252 |
| 27-Co- 59 | 42-Mo-100 | 53-I -135 | 64-Gd-153 | 90-Th-233 | 99-Es-253 |
| 28-Ni- 58 | 43-Tc- 99 | 54-Xe-123 | 64-Gd-154 | 90-Th-234 | 99-Es-254 |
| 28-Ni- 60 | 44-Ru- 96 | 54-Xe-124 | 64-Gd-155 | 91-Pa-229 | 99-Es-254m |
| 28-Ni- 61 | 44-Ru- 98 | 54-Xe-126 | 64-Gd-156 | 91-Pa-230 | 99-Es-255 |
| | 44-Ru- 99 | 54-Xe-128 | 64-Gd-157 | | 100-Fm-255 |
| | 44-Ru-100 | 54-Xe-129 | 64-Gd-158 | | |
| | | 54-Xe-130 | | | |

Appendix B: Contents of ENDF/B-VII.0 (78 new + 315 old = 393 total evaluations)

| | | | | | |
|------------|-----------|------------|------------|------------|------------|
| 1-H - 1 | 28-Ni- 60 | 44-Ru-100 | 54-Xe-123 | 63-Eu-155 | 90-Th-227 |
| 1-H - 2 | 28-Ni- 61 | 44-Ru-101 | 54-Xe-124 | 63-Eu-156 | 90-Th-228 |
| 1-H - 3 | 28-Ni- 62 | 44-Ru-102 | 54-Xe-126 | 63-Eu-157 | 90-Th-229 |
| 2-He- 3 | 28-Ni- 64 | 44-Ru-103 | 54-Xe-128 | 64-Gd-152 | 90-Th-230 |
| 2-He- 4 | 29-Cu- 63 | 44-Ru-104 | 54-Xe-129 | 64-Gd-153 | 90-Th-232 |
| 3-Li- 6 | 29-Cu- 65 | 44-Ru-105 | 54-Xe-130 | 64-Gd-154 | 90-Th-233 |
| 3-Li- 7 | 30-Zn-Nat | 44-Ru-106 | 54-Xe-131 | 64-Gd-155 | 90-Th-234 |
| 4-Be- 7 | 31-Ga- 69 | 45-Rh-103 | 54-Xe-132 | 64-Gd-156 | 91-Pa-231 |
| 4-Be- 9 | 31-Ga- 71 | 45-Rh-105 | 54-Xe-133 | 64-Gd-157 | 91-Pa-232 |
| 5-B - 10 | 32-Ge- 70 | 46-Pd-102 | 54-Xe-134 | 64-Gd-158 | 91-Pa-233 |
| 5-B - 11 | 32-Ge- 72 | 46-Pd-104 | 54-Xe-135 | 64-Gd-160 | 92-U -232 |
| 6-C -Nat | 32-Ge- 73 | 46-Pd-105 | 54-Xe-136 | 65-Tb-159 | 92-U -233 |
| 7-N - 14 | 32-Ge- 74 | 46-Pd-106 | 55-Cs-133 | 65-Tb-160 | 92-U -234 |
| 7-N - 15 | 32-Ge- 76 | 46-Pd-107 | 55-Cs-134 | 66-Dy-156 | 92-U -235 |
| 8-O - 16 | 33-As- 74 | 46-Pd-108 | 55-Cs-135 | 66-Dy-158 | 92-U -236 |
| 8-O - 17 | 33-As- 75 | 46-Pd-110 | 55-Cs-136 | 66-Dy-160 | 92-U -237 |
| 9-F - 19 | 34-Se- 74 | 47-Ag-107 | 55-Cs-137 | 66-Dy-161 | 92-U -238 |
| 11-Na- 22 | 34-Se- 76 | 47-Ag-109 | 56-Ba-130 | 66-Dy-162 | 92-U -239 |
| 11-Na- 23 | 34-Se- 77 | 47-Ag-110m | 56-Ba-132 | 66-Dy-163 | 92-U -240 |
| 12-Mg- 24 | 34-Se- 78 | 47-Ag-111 | 56-Ba-133 | 66-Dy-164 | 92-U -241 |
| 12-Mg- 25 | 34-Se- 79 | 48-Cd-106 | 56-Ba-134 | 67-Ho-165 | 93-Np-235 |
| 12-Mg- 26 | 34-Se- 80 | 48-Cd-108 | 56-Ba-135 | 67-Ho-166m | 93-Np-236 |
| 13-Al- 27 | 34-Se- 82 | 48-Cd-110 | 56-Ba-136 | 68-Er-162 | 93-Np-237 |
| 14-Si- 28 | 35-Br- 79 | 48-Cd-111 | 56-Ba-137 | 68-Er-164 | 93-Np-238 |
| 14-Si- 29 | 35-Br- 81 | 48-Cd-112 | 56-Ba-138 | 68-Er-166 | 93-Np-239 |
| 14-Si- 30 | 36-Kr- 78 | 48-Cd-113 | 56-Ba-140 | 68-Er-167 | 94-Pu-236 |
| 15-P - 31 | 36-Kr- 80 | 48-Cd-114 | 57-La-138 | 68-Er-168 | 94-Pu-237 |
| 16-S - 32 | 36-Kr- 82 | 48-Cd-115m | 57-La-139 | 68-Er-170 | 94-Pu-238 |
| 16-S - 33 | 36-Kr- 83 | 48-Cd-116 | 57-La-140 | 68-Er-171 | 94-Pu-239 |
| 16-S - 34 | 36-Kr- 84 | 49-In-113 | 58-Ce-136 | 71-Lu-175 | 94-Pu-240 |
| 16-S - 36 | 36-Kr- 85 | 49-In-115 | 58-Ce-138 | 71-Lu-176 | 94-Pu-241 |
| 17-Cl- 35 | 36-Kr- 86 | 50-Sn-112 | 58-Ce-139 | 72-Hf-174 | 94-Pu-242 |
| 17-Cl- 37 | 37-Rb- 85 | 50-Sn-113 | 58-Ce-140 | 72-Hf-176 | 94-Pu-243 |
| 18-Ar- 36 | 37-Rb- 86 | 50-Sn-114 | 58-Ce-141 | 72-Hf-177 | 94-Pu-244 |
| 18-Ar- 38 | 37-Rb- 87 | 50-Sn-115 | 58-Ce-142 | 72-Hf-178 | 94-Pu-246 |
| 18-Ar- 40 | 38-Sr- 84 | 50-Sn-116 | 58-Ce-143 | 72-Hf-179 | 95-Am-241 |
| 19-K - 39 | 38-Sr- 86 | 50-Sn-117 | 58-Ce-144 | 73-Ta-181 | 95-Am-242 |
| 19-K - 40 | 38-Sr- 87 | 50-Sn-118 | 59-Pr-141 | 73-Ta-182 | 95-Am-242m |
| 19-K - 41 | 38-Sr- 88 | 50-Sn-119 | 59-Pr-142 | 74-W -182 | 95-Am-243 |
| 20-Ca- 40 | 38-Sr- 89 | 50-Sn-120 | 59-Pr-143 | 74-W -183 | 95-Am-244 |
| 20-Ca- 42 | 38-Sr- 90 | 50-Sn-122 | 60-Nd-142 | 74-W -184 | 95-Am-244m |
| 20-Ca- 43 | 39-Y - 89 | 50-Sn-123 | 60-Nd-143 | 74-W -186 | 96-Cm-241 |
| 20-Ca- 44 | 39-Y - 90 | 50-Sn-124 | 60-Nd-144 | 75-Re-185 | 96-Cm-242 |
| 20-Ca- 46 | 39-Y - 91 | 50-Sn-125 | 60-Nd-145 | 75-Re-187 | 96-Cm-243 |
| 20-Ca- 48 | 40-Zr- 90 | 50-Sn-126 | 60-Nd-146 | 77-Ir-191 | 96-Cm-244 |
| 21-Sc- 45 | 40-Zr- 91 | 51-Sb-121 | 60-Nd-147 | 77-Ir-193 | 96-Cm-245 |
| 22-Ti- 46 | 40-Zr- 92 | 51-Sb-123 | 60-Nd-148m | 79-Au-197 | 96-Cm-246 |
| 22-Ti- 47 | 40-Zr- 93 | 51-Sb-124 | 60-Nd-150 | 80-Hg-196 | 96-Cm-247 |
| 22-Ti- 48 | 40-Zr- 94 | 51-Sb-125 | 61-Pm-147 | 80-Hg-198 | 96-Cm-248 |
| 22-Ti- 49 | 40-Zr- 95 | 51-Sb-126 | 61-Pm-148 | 80-Hg-199 | 96-Cm-249 |
| 22-Ti- 50 | 40-Zr- 96 | 52-Te-120 | 61-Pm-148 | 80-Hg-200 | 96-Cm-250 |
| 23-V -Nat | 41-Nb- 93 | 52-Te-122 | 61-Pm-149 | 80-Hg-201 | 97-Bk-249 |
| 24-Cr- 50 | 41-Nb- 94 | 52-Te-123 | 61-Pm-151 | 80-Hg-202 | 97-Bk-250 |
| 24-Cr- 52 | 41-Nb- 95 | 52-Te-124 | 62-Sm-144 | 80-Hg-204 | 98-Cf-249 |
| 24-Cr- 53 | 42-Mo- 92 | 52-Te-125 | 62-Sm-147 | 82-Pb-204 | 98-Cf-250 |
| 24-Cr- 54 | 42-Mo- 94 | 52-Te-126 | 62-Sm-148 | 82-Pb-206 | 98-Cf-251 |
| 25-Mn- 55 | 42-Mo- 95 | 52-Te-127m | 62-Sm-149 | 82-Pb-207 | 98-Cf-252 |
| 26-Fe- 54 | 42-Mo- 96 | 52-Te-128 | 62-Sm-150 | 82-Pb-208 | 98-Cf-253 |
| 26-Fe- 56 | 42-Mo- 97 | 52-Te-129m | 62-Sm-151 | 83-Bi-209 | 98-Cf-254 |
| 26-Fe- 57 | 42-Mo- 98 | 52-Te-130 | 62-Sm-152 | 88-Ra-223 | 99-Es-253 |
| 26-Fe- 58 | 42-Mo- 99 | 52-Te-132 | 62-Sm-153 | 88-Ra-224 | 99-Es-254 |
| 27-Co- 58 | 42-Mo-100 | 53-I -127 | 62-Sm-154 | 88-Ra-225 | 99-Es-255 |
| 27-Co- 58m | 43-Tc- 99 | 53-I -129 | 63-Eu-151 | 88-Ra-226 | 100-Fm-255 |
| 27-Co- 59 | 44-Ru- 96 | 53-I -130 | 63-Eu-152 | 89-Ac-225 | |
| 28-Ni- 58 | 44-Ru- 98 | 53-I -131 | 63-Eu-153 | 89-Ac-226 | |
| 28-Ni- 58m | 44-Ru- 99 | 53-I -135 | 63-Eu-154 | 89-Ac-227 | |

Appendix C: Elemental vs. Isotopic Evaluations

Successive versions of ENDF/B have replaced elemental evaluations by isotopic evaluations. Between ENDF/B-VI and VII 13 elemental evaluations were deleted, i.e., included in ENDF/B-VI, but not included in ENDF/B-VII, with VII.0 only including elemental evaluations for three elements: **6-C**, **23-V**, and **30-Zn**. Between VII.0 and VII.1 2 elemental evaluations were deleted (**23-V**, and **30-Zn**), and replaced by isotopic evaluations, leaving only **6-C**: **6-C-12** 98.93%/ **6-C-13** 1.07% missing

All of these isotopes in VII.1 are complete, in the sense that they include major cross sections (elastic, capture, inelastic) over the energy range 10^{-5} eV up to at least 20 MeV.

WARNING: Be aware that evaluating isotopes is difficult and the quality of minor isotopes may be poor. To my knowledge as yet the summing these isotopes to define equivalent elemental evaluations has not been verified against experimental measurements.

Elemental Evaluations Replaced by Isotopic evaluations in VII.1 (**23 new**, 19 old)

| Element | Isotope | Element | Isotope | Element | Isotope |
|-----------|------------------|-----------|------------------|-----------|-----------|
| 12-Mg-Nat | 12-Mg- 24 | 22-Ti-Nat | 22-Ti- 46 | 42-Mo-Nat | 42-Mo- 92 |
| | 12-Mg- 25 | | 22-Ti- 47 | | 42-Mo- 94 |
| | 12-Mg- 26 | | 22-Ti- 48 | | 42-Mo- 95 |
| 14-Si-Nat | 14-Si- 28 | 23-V -Nat | 22-Ti- 49 | 42-Mo- 96 | 42-Mo- 96 |
| | 14-Si- 29 | | 22-Ti- 50 | | 42-Mo- 97 |
| | 14-Si- 30 | | 23-V - 50 | | 42-Mo- 98 |
| 16-S -Nat | 16-S - 32 | 30-Zn-Nat | 23-V - 51 | 42-Mo- 99 | 42-Mo- 99 |
| | 16-S - 33 | | 30-Zn- 64 | | 42-Mo-100 |
| | 16-S - 34 | | 30-Zn- 65 | 49-In-Nat | 49-In-113 |
| | 16-S - 36 | | 30-Zn- 66 | | 49-In-115 |
| 17-Cl-Nat | 17-Cl- 35 | 30-Zn- 67 | 30-Zn- 67 | | 72-Hf-Nat |
| | 17-Cl- 37 | | 30-Zn- 68 | 72-Hf-Nat | 72-Hf-174 |
| 19-K -Nat | 19-K - 39 | | 30-Zn- 70 | | 72-Hf-176 |
| | 19-K - 40 | | 31-Ga- 69 | | 72-Hf-177 |
| | 19-K - 41 | 31-Ga-Nat | 31-Ga- 71 | | 72-Hf-178 |
| 20-Ca-Nat | 20-Ca- 40 | | 40-Zr- 90 | 74-W -Nat | 72-Hf-179 |
| | 20-Ca- 42 | 40-Zr-Nat | 40-Zr- 91 | | 72-Hf-180 |
| | 20-Ca- 43 | | 40-Zr- 92 | | 74-W -182 |
| | 20-Ca- 44 | | 40-Zr- 93 | | 74-W -183 |
| | 20-Ca- 46 | | 40-Zr- 94 | | 74-W -184 |
| | 20-Ca- 48 | | 40-Zr- 95 | | 74-W -186 |
| | | | 40-Zr- 96 | | |

Appendix D: Completeness of VII.1

Here I present the results of simple tests to see how complete VII.1 is. The results presented here should not be interpreted as indicating **ERRORS**, but rather as **WARNINGS**, that we should check the indicated data; in many cases I judge the data to be o.k. **4-Be-7 is a partial evaluations that failed almost all tests, and should never have been included in a ENDF/B general purpose library.** Here I checked,

- 1) MT=2, 102, 18, 4, 16 (elastic, capture, fission, inelastic, n,2n).
- 2) MF=3, 4, 5 ,6 (cross sections, angular, energy, double differential)

For these test I assume,

- 1) Every evaluation includes MT=2, 102, 4 and 16; this is obviously not true for some light isotopes, but for completeness they are included here, i.e., this is merely to inform users. **Of the heavier isotopes only 28-Ni-59 appears to be a problem with no inelastic data.**
- 2) All cross sections are positive (>0) above their threshold up to at least 20 MeV. This is not true for some reactions which do not extend up to at least 20 MeV, particularly high energy capture, which is o.k. There are also a number of cases where the elastic is negative due to the resonance contribution.
- 3) No isotopes with Z<90 include MT=18 (fission). **This test found the obvious ERROR in 43-Tc-99, which has positive fission widths = NONSENSE!!!** It also flagged isotopes of 88Ra and 89Ac, which are questionable.
- 4) I included many more completeness tests, but these were the only ones that failed.

| Evaluation | MT=2 | MT=102 | MT=18 | MT=4 | MT=16 | |
|------------|---------|---------|---------|---------|---------|-------------------------|
| | 3 4 5 6 | 3 4 5 6 | 3 4 5 6 | 3 4 5 6 | 3 4 5 6 | Explanation |
| 1-H -1 | X X | X X | | | | No MT=4,16 |
| 1-H -2 | X X | X | | | X X | No MT=4 |
| 1-H -3 | X X | | | | X X X | No MT=4 |
| 2-He-3 | X X | X | | | | No MT=4,16 |
| 2-He-4 | X X | | | | | No MT=4,16 |
| 3-Li-6 | X X | X | | X X | | No MT=16 |
| 4-Be-7 | + X | | | | | MT=2 not >0, No MT=4,16 |
| 4-Be-9 | X X | X | | | X X | No MT=4 |
| 5-B -10 | X X | + | | X X | | MT=102 not >0, No MT=16 |
| 6-C -Nat | X X | X | | X X X | | No MT=16 |
| 18-Ar-40 | + X | X | | X X X | X X X | MT=2 not >0 |
| 20-Ca-40 | + X | X X | | X X X | X X X | MT=2 not >0 |
| 21-Sc-45 | X X | + | | X X X | X X X | MT=102 not >0 |
| 24-Cr-50 | + X | X | | X X X | X X X | MT=2 not >0 |
| 26-Fe-56 | + X | X | | X X X | X X X | MT=2 not >0 |
| 27-Co-58 | X X | + | | X X X | X X X | MT=102 not >0 |
| 28-Ni-59 | X X | X | | | X X X | no MT=4 |
| 28-Ni-61 | + X | X | | X X X | X X X | MT=2 not >0 |
| 41-Nb-93 | + X | X | | X X X | X X X | MT=2 not >0 |
| 43-Tc-99 | X X | X X | ? | X X X | X X X | MT=18 Z<90 |
| 48-Cd-108 | X X | + | | X X X | X X X | MT=102 not >0 |
| 48-Cd-110 | X X | + | | X X X | X X X | MT=102 not >0 |
| 48-Cd-112 | X X | + | | X X X | X X X | MT=102 not >0 |
| 48-Cd-116 | X X | + | | X X X | X X X | MT=102 not >0 |
| 54-Xe-130 | X X | + | | + X X | X X X | MT=102,4 not >0 |
| 64-Gd-152 | + X | X X | | X X X | X X X | MT=2 not >0 |
| 66-Dy-160 | + X | X X | | X X X | X X X | MT=2 not >0 |
| 82-Pb-207 | + X | X X | | X X X | X X X | MT=2 not >0 |
| 88-Ra-223 | X X | X | ? | X X X | X X X | MT=18 Z<90 |
| 88-Ra-226 | X X | X | ? | X X X | X X X | MT=18 Z<90 |
| 89-Ac-225 | X X | X X | ? | X X X | X X X | MT=18 Z<90 |
| 89-Ac-226 | X X | X X | ? | X X X | X X X | MT=18 Z<90 |
| 89-Ac-227 | X X | X X | ? | X X X | X X X | MT=18 Z<90 |
| 92-U -239 | X X | X | + X X | X X X | X X X | MT=18 not >0 |
| 92-U -240 | + X | X | X X X | X X X | X X X | MT=2 not >0 |

To see the improvements in VII.1 vs. VII.0, the below tables shows the results from running exactly the same tests on VII.0, here without the annotation explaining what's wrong in each case; hopefully from the above table you can figure this out. By comparing the above and below tables you can see the improvements in VII.1 compare to VII.0.

| Evaluation | MT=2 | MT=102 | MT=18 | MT=4 | MT=16 |
|------------|---------|---------|---------|---------|---------|
| | 3 4 5 6 | 3 4 5 6 | 3 4 5 6 | 3 4 5 6 | 3 4 5 6 |
| 1-H -1 | X X | X X | | | |
| 1-H -2 | X X | X | | | X X |
| 1-H -3 | X X | | | | X X X |
| 2-He-3 | X X | X | | | |
| 2-He-4 | X X | | | | |
| 3-Li-6 | X X | X | | X X | |
| 4-Be-7 | + X | | | | |
| 4-Be-9 | X X | X | | | X X |
| 5-B -10 | X X | + | | X X | |
| 6-C -Nat | X X | X | | X X X | |
| 18-Ar-40 | + X | X | | X X X | X X X |
| 20-Ca-40 | + X | X X | | X X X | X X X |
| 21-Sc-45 | X X | + | | X X X | X X X |
| 26-Fe-56 | + X | X | | X X X | X X X |
| 27-Co-58 | X X | + | | X X X | X X X |
| 28-Ni-59 | X X | X | | | X X X |
| 28-Ni-61 | + X | X | | X X | X X |
| 33-As-74 | X X | X X | | ? ? | X X |
| 39-Y -90 | X X | X X | | ? ? | X X |
| 41-Nb-93 | + X | X | | X X X | X X X |
| 48-Cd-108 | X X | + | | X X X | X X X |
| 48-Cd-110 | X X | + | | X X X | X X X |
| 48-Cd-112 | X X | + | | X X X | X X X |
| 48-Cd-116 | X X | + | | X X X | X X X |
| 54-Xe-130 | X X | + | | + X X | X X X |
| 64-Gd-152 | + X | X X | | X X X | X X X |
| 66-Dy-160 | + X | X X | | X X X | X X X |
| 82-Pb-207 | + X | X X | | X X X | X X X |
| 88-Ra-223 | X X | X | ? ? ? | X X X | X X X |
| 88-Ra-226 | X X | X | ? ? ? | X X X | X X X |
| 89-Ac-227 | X X | X | ? ? ? | X X X | X X X |
| 90-Th-228 | X X | X | + X X | X X X | X X X |
| 90-Th-230 | + X | X | X X X | X X X | X X X |
| 91-Pa-231 | X X | X X | X X X | ? ? | X X X |
| 91-Pa-233 | X X | X X | X X X | ? ? | X X X |
| 92-U -240 | + X | X | X X X | X X X | X X X |
| 94-Pu-237 | X X | X | X X X | + X X | X X X |
| 94-Pu-238 | + X | X | X X X | + X X | X X X |
| 94-Pu-242 | + X | X | X X X | X X X | X X X |
| 94-Pu-244 | + X | X | X X X | X X X | X X X |
| 95-Am-242m | X X | X | X X X | + X X | X X X |
| 96-Cm-241 | X X | + | X X X | + X X | X X X |
| 96-Cm-242 | + X | X | + X X | + X X | X X X |
| 96-Cm-248 | + X | X | X X X | + X X | X X X |
| 98-Cf-250 | + X | X | X X X | X X X | X X X |
| 98-Cf-252 | + X | X | X X X | X X X | X X X |
| 98-Cf-253 | X X | + | + X X | | |
| 99-Es-253 | X X | + | | | |

Appendix E: Summary of $\langle \nu(E) \rangle$ for all fissile/fertile isotopes in ENDF/B-VII.1

For applications involving fission (F) I require both prompt and delayed neutrons per fission. In the ENDF/B format the evaluator can optionally include: Total (T), Delayed (D) and/or Prompt (P); given any two of these three we can uniquely define the third. Below is a summary of all fissile/fertile materials in ENDF/B-VII.1, indicating the neutrons per fission data included for each isotope. This table indicates each evaluation that includes,

F = Fission cross section (MF/MT=3/18)
T = Total $\langle \nu(E) \rangle$ (MF/MT=1/452)
D = Delayed $\langle \nu(E) \rangle$ (MF/MT=1/455)
P = Prompt $\langle \nu(E) \rangle$ (MF/MT=1/456)

This table indicates VII.1 is in much better shape than VII.0, where more evaluations only included total (T) $\langle \nu(E) \rangle$. **There is one glaring ERROR: 43-Tc-99 which is obviously non-fissile/fertile, but includes fission widths.** In addition there are three evaluations that only include total (T) $\langle \nu(E) \rangle$: 88-Ra-233, 88-Ra-226, and 94-Pu-243. It is also questionable whether or not 88-Ra and 89-Ac should be identified as fissile/fertile.

Summary of all fissile/fertile isotopes in ENDF/B-VII.1 $\langle \nu(E) \rangle$ (86 evaluations)

| | | | | | |
|------------------|------------|------------------|------------|------------|---------|
| 43-Tc-99 | F | 92-U -240 | F T D P | 96-Cm-244 | F T D P |
| 88-Ra-223 | F T | 92-U -241 | F T D P | 96-Cm-245 | F T D P |
| 88-Ra-226 | F T | 93-Np-234 | F T D P | 96-Cm-246 | F T D P |
| 89-Ac-225 | F T D P | 93-Np-235 | F T D P | 96-Cm-247 | F T D P |
| 89-Ac-226 | F T D P | 93-Np-236 | F T D P | 96-Cm-248 | F T D P |
| 89-Ac-227 | F T D P | 93-Np-237 | F T D P | 96-Cm-249 | F T D P |
| 90-Th-227 | F T D P | 93-Np-238 | F T D P | 96-Cm-250 | F T D P |
| 90-Th-228 | F T D P | 93-Np-239 | F T D P | 97-Bk-245 | F T D P |
| 90-Th-229 | F T D P | 94-Pu-236 | F T D P | 97-Bk-246 | F T D P |
| 90-Th-230 | F T D P | 94-Pu-237 | F T D P | 97-Bk-247 | F T D P |
| 90-Th-231 | F T D P | 94-Pu-238 | F T D P | 97-Bk-248 | F T D P |
| 90-Th-232 | F T D P | 94-Pu-239 | F T D P | 97-Bk-249 | F T D P |
| 90-Th-233 | F T D P | 94-Pu-240 | F T D P | 97-Bk-250 | F T D P |
| 90-Th-234 | F T D P | 94-Pu-241 | F T D P | 98-Cf-246 | F T D P |
| 91-Pa-229 | F T D P | 94-Pu-242 | F T D P | 98-Cf-248 | F T D P |
| 91-Pa-230 | F T D P | 94-Pu-243 | F T | 98-Cf-249 | F T D P |
| 91-Pa-231 | F T D P | 94-Pu-244 | F T D P | 98-Cf-250 | F T D P |
| 91-Pa-232 | F T D P | 94-Pu-246 | F T D P | 98-Cf-251 | F T D P |
| 91-Pa-233 | F T D P | 95-Am-240 | F T D P | 98-Cf-252 | F T D P |
| 92-U -230 | F T D P | 95-Am-241 | F T D P | 98-Cf-253 | F T D P |
| 92-U -231 | F T D P | 95-Am-242 | F T D P | 98-Cf-254 | F T D P |
| 92-U -232 | F T D P | 95-Am-242m | F T D P | 99-Es-251 | F T D P |
| 92-U -233 | F T D P | 95-Am-243 | F T D P | 99-Es-252 | F T D P |
| 92-U -234 | F T D P | 95-Am-244 | F T D P | 99-Es-253 | F T D P |
| 92-U -235 | F T D P | 95-Am-244m | F T D P | 99-Es-254 | F T D P |
| 92-U -236 | F T D P | 96-Cm-240 | F T D P | 99-Es-254m | F T D P |
| 92-U -237 | F T D P | 96-Cm-241 | F T D P | 99-Es-255 | F T D P |
| 92-U -238 | F T D P | 96-Cm-242 | F T D P | 100-Fm-255 | F T D P |
| 92-U -239 | F T D P | 96-Cm-243 | F T D P | | |

Summary of all fissile/fertile isotopes in ENDF/B-VII.0 $\langle \nu(E) \rangle$ (65 evaluations)

Comparing the above table for VII.1 and the below table for VII.0 we can see that the $\langle \nu(E) \rangle$ data is much improved, but VII.1 still has the same three deficiencies that we found in VII.0, namely evaluations that only include total (T) $\langle \nu(E) \rangle$: 88-Ra-233, 88-Ra-226, and 94-Pu-243.

| | | | | | |
|------------------|------------|------------------|------------|------------------|------------|
| 88-Ra-223 | F T | 92-U -241 | F T D P | 96-Cm-241 | F T |
| 88-Ra-226 | F T | 93-Np-235 | F T D P | 96-Cm-242 | F T D P |
| 89-Ac-227 | F T | 93-Np-236 | F T D P | 96-Cm-243 | F T D P |
| 90-Th-227 | F T D P | 93-Np-237 | F T D P | 96-Cm-244 | F T D P |
| 90-Th-228 | F T D P | 93-Np-238 | F T D P | 96-Cm-245 | F T D P |
| 90-Th-229 | F T D P | 93-Np-239 | F T | 96-Cm-246 | F T D P |
| 90-Th-230 | F T | 94-Pu-236 | F T D P | 96-Cm-247 | F T D P |
| 90-Th-232 | F T D P | 94-Pu-237 | F T | 96-Cm-248 | F T |
| 90-Th-233 | F T D P | 94-Pu-238 | F T D P | 96-Cm-249 | F T D P |
| 90-Th-234 | F T D P | 94-Pu-239 | F T D P | 96-Cm-250 | F T D P |
| 91-Pa-231 | F T D P | 94-Pu-240 | F T D P | 97-Bk-249 | F T D P |
| 91-Pa-232 | F T D P | 94-Pu-241 | F T D P | 97-Bk-250 | F T D P |
| 91-Pa-233 | F T D P | 94-Pu-242 | F T D P | 98-Cf-249 | F T D P |
| 92-U -232 | F T D P | 94-Pu-243 | F T | 98-Cf-250 | F T |
| 92-U -233 | F T D P | 94-Pu-244 | F T | 98-Cf-251 | F T D P |
| 92-U -234 | F T D P | 94-Pu-246 | F T D P | 98-Cf-252 | F T |
| 92-U -235 | F T D P | 95-Am-241 | F T D P | 98-Cf-253 | F T |
| 92-U -236 | F T D P | 95-Am-242 | F T D P | 98-Cf-254 | F T D P |
| 92-U -237 | F T D P | 95-Am-242m | F T D P | 99-Es-254 | F T D P |
| 92-U -238 | F T D P | 95-Am-243 | F T D P | 99-Es-255 | F T D P |
| 92-U -239 | F T D P | 95-Am-244 | F T D P | 100-Fm-255 | F T D P |
| 92-U -240 | F T D P | 95-Am-244m | F T D P | | |

Appendix F: An Initial Comparison of VII.1 versus VII.0

So far I have only had time to check the major cross sections (MT=1, 2, 18, 102; total, elastic, fission and capture) for completeness: defined 10^{-5} eV up to at least 20 MeV. WARNING: Many evaluations have cross sections above 20 MeV, but capture (MT=102) only up to 20 MeV, so there is a discontinuity at 20 MeV. For purposes of the below table this is not considered to be ERROR and as such is not indicated in this table, but users should be aware of this if you use the data above 20 MeV. The following table only includes those evaluations for which I “saw” problems; all other evaluations a judge to be o.k.

For the 238 Evaluations where I found “differences”, these differences may or may not be in the major cross sections that I have “seen. For details of which sections (that is which MF/MT) I found differences see the appendix D.

I used the PREPRO graphics codes EVALPLOT and COMPLOT to view ALL 418 evaluations in VII.1; for details of the following summary you can use these codes to “see” the cross sections.

For compactness in the below tables I use the following shorthand,

- 1) “Up to” means up to this % difference between VII.0 and VII.1
- 2) “BIG” or “ENORMOUS” means BIG or ENORMOUS Differences
- 3) “Reg. region” means Res. Region; “Unresolved” mean unresolved Reg. region
- 4) “Horrible” means no resonances; can probably be improved using Mughabghab’s resonance parameters [R4].
- 5) “VII.0 BETTER” means VII.1 includes no or few resonances, while VII.0 includes many resonances and certainly appears to be physically BETTER

New Evaluations in VII.1, not in VII.0 (27 Evaluations)

Most of these were adopted from JENDL-4. The isotopes of V and Zn look o.k. The others are very crude; that’s the bad news. The good news is that they are all minor isotopes which generally will have little effect on our applications.

Identical in VII.0 and VII.1 (153 Evaluations)

| | | | |
|-----------|---------------------------|------------|---------------------------|
| 5-B -10 | MT=102(n,g)=0 above 1 MeV | 50-Sn-123 | Very crude; only unres. |
| 20-Ca-46 | No resonances | 50-Sn-126 | Very crude; only unres. |
| 27-Co-58 | Very crude; weird capture | 51-Sb-124 | Very crude; only unres. |
| 27-Co-58m | Very crude; weird capture | 51-Sb-125 | Very crude; only unres. |
| 34-Se-79 | Very crude; only unres. | 52-Te-120 | Very crude; only unres. |
| 36-Kr-82 | Very crude | 52-Te-127m | Very crude; only unres. |
| 36-Kr-83 | Very crude | 52-Te-129m | Very crude; only unres. |
| 38-Sr-89 | Very crude | 53-I -131 | Very crude; only unres. |
| 38-Sr-90 | Very crude | 54-Xe-133 | Very crude; only unres. |
| 39-Y -91 | Very crude; only unres. | 55-Cs-136 | Very crude; only unres. |
| 40-Zr-95 | Very crude; only unres. | 55-Cs-137 | Very crude; only unres. |
| 41-Nb-95 | Crude | 56-Ba-132 | Crude |
| 42-Mo-98 | Very crude; only unres. | 58-Ce-144 | Very crude; only unres. |
| 42-Mo-99 | Very crude; only unres. | 59-Pr-143 | Crude |
| 44-Ru-96 | Very crude; only unres. | 63-Eu-156 | Very crude; only unres. |
| 44-Ru-98 | Very crude; only unres. | 88-Ra-223 | Very crude; no resonances |
| 44-Ru-105 | Very crude; no resonances | 88-Ra-224 | Very crude; no resonances |
| 44-Ru-106 | Very crude; only unres. | 88-Ra-225 | Very crude; no resonances |
| 45-Rh-105 | Very crude | | |

Different in VII.0 and VII.1 (238 Evaluations)

| | | | |
|-----------|------------------------------|------------|-----------------------------------|
| 2-He-4 | Up to 2% | 74-W -183 | Larger Res. region |
| 3-Li-6 | Uo to 18% at low Energy | 74-W -184 | Larger Res. region |
| 4-Be-9 | Up to 8% | 74-W -186 | Larger Res. region |
| 8-O -16 | BIG in Res. region | 75-Re-185 | ENOORMOUS in Res. region |
| 9-F -19 | BIG in Res. region | 75-Re-187 | ENOORMOUS in Res. region |
| 11-Na-23 | BIG in Res. region | 77-Ir-193 | Very crude |
| 15-P -31 | Up to 18% Capture | 80-Hg-202 | Very crude |
| 17-Cl-35 | BIG in Res. region | 80-Hg-204 | VERY crude |
| 17-Cl-37 | BIG in Res. region | 89-Ac-225 | HORRIBLE |
| 19-K -39 | ENOORMOUS in Res. region | 89-Ac-226 | HORRIBLE |
| 19-K -41 | ENOORMOUS in Res. region | 89-Ac-227 | HORRIBLE |
| 22-Ti-46 | ENOORMOUS in Res. region | 90-Th-227 | HORRIBLE |
| 22-Ti-47 | ENOORMOUS in Res. region | 90-Th-228 | BIG; (n,f)=0, 2 to 400 keV |
| 22-Ti-48 | ENOORMOUS in Res. region | 90-Th-229 | ENOORMOUS in Res. region |
| 22-Ti-49 | ENOORMOUS in Res. region | 90-Th-230 | ENOORMOUS in Res. region |
| 22-Ti-50 | ENOORMOUS in Res. region | 90-Th-232 | Up to 2% in unresolved |
| 24-Cr-50 | ENOORMOUS in Res. region | 90-Th-233 | HORRIBLE |
| 24-Cr-52 | ENOORMOUS in Res. region | 90-Th-234 | HORRIBLE |
| 24-Cr-53 | ENOORMOUS in Res. region | 91-Pa-232 | BIG in Res. region |
| 24-Cr-54 | ENOORMOUS in Res. region | 92-U -232 | BIG in Res. region |
| 25-Mn-55 | ENOORMOUS in Res. region | 92-U -235 | Up to 9% |
| 28-Ni-58 | ENOORMOUS in Res. region | 92-U -237 | ENOORMOUS in Res. Region |
| 28-Ni-60 | ENOORMOUS in Res. region | 92-U -239 | ENOORMOUS in Res. region |
| 28-Ni-61 | ENOORMOUS in Res. region | 93-Np-235 | HORRIBLE |
| 28-Ni-62 | ENOORMOUS in Res. region | 93-Np-236 | ENOORMOUS in Res. region |
| 28-Ni-64 | ENOORMOUS in Res. region | 93-Np-237 | Up to 13% at low energy |
| 33-As-74 | Crude | 93-Np-238 | ENOORMOUS in Res. region |
| 33-As-75 | Up to 11% | 93-Np-239 | HORRIBLE |
| 36-Kr-78 | Up to 83% | 94-Pu-236 | Up to 150% in unresolved |
| 39-Y -89 | Much Smaller Res. region | 94-Pu-237 | HORRIBLE |
| 40-Zr-90 | Smaller Res. region | 94-Pu-238 | ENOORMOUS in Res. region |
| 40-Zr-91 | BIG in Res. region | 94-Pu-239 | Up to 1% in unresolved |
| 42-Mo-95 | Differences in Res. region | 94-Pu-240 | ENOORMOUS in Res. capture? |
| 43-Tc-99 | Differences in Res. region | 94-Pu-242 | ENOORMOUS in Res. region |
| 45-Rh-103 | Differences in Res. region | 94-Pu-244 | ENOORMOUS in Res. region |
| 47-Ag-109 | ENOORMOUS in Res. region | 94-Pu-246 | HORRIBLE |
| 48-Cd-106 | ENOORMOUS in Res. region | 95-Am-241 | BIG in Res. region |
| 48-Cd-108 | ENOORMOUS in Res. region | 95-Am-244 | HORRIBLE |
| 48-Cd-110 | ENOORMOUS in Res. region | 95-Am-244m | HORRIBLE |
| 48-Cd-111 | ENOORMOUS in Res. region | 96-Cm-241 | HORRIBLE |
| 48-Cd-112 | ENOORMOUS in Res. region | 96-Cm-242 | BIG in Res. region |
| 48-Cd-113 | Smaller Res. region | 96-Cm-243 | ENOORMOUS in Res. region |
| 48-Cd-114 | ENOORMOUS in Res. region | 96-Cm-244 | ENOORMOUS in Res. region |
| 48-Cd-116 | BIG in Res. region | 96-Cm-245 | BIG in Res. region |
| 53-I -135 | Very crude; no Res. region | 96-Cm-246 | ENOORMOUS in Res. region |
| 54-Xe-123 | HORRIBLE; nonphysical | 96-Cm-247 | ENOORMOUS in Res. region |
| 54-Xe-124 | Up to 50% | 96-Cm-248 | Smaller resolved region |
| 54-Xe-130 | MT=102(n,g) = 0 above 11 MeV | 96-Cm-249 | HORRIBLE; VII.0 BETTER |
| 55-Cs-133 | ENOORMOUS in Res. region | 96-Cm-250 | ENOORMOUS in Res. region |
| 60-Nd-145 | ENOORMOUS in Res. region | 97-Bk-249 | BIG in Res. region |
| 61-Pm-148 | Crude; only unresolved | 97-Bk-250 | HORRIBLE; VII.0 BETTER |
| 61-Pm-149 | Crude; only unresolved | 98-Cf-249 | Larger Res. region |
| 62-Sm-153 | Up to 10% at low energy | 98-Cf-250 | Smaller res.: VII.0 BETTER |
| 64-Gd-157 | Up to 16% | 98-Cf-251 | Smaller res.: VII.0 BETTER |
| 72-Hf-174 | ENOORMOUS in Res. region | 98-Cf-252 | ENOORMOUS |
| 72-Hf-176 | BIG in Res. region | 98-Cf-253 | HORRIBLE; VII.0 incomplete |
| 72-Hf-177 | ENOORMOUS in Res. region | 98-Cf-254 | HORRIBLE |
| 72-Hf-178 | BIG in Res. region | 99-Es-253 | Smaller res.: VII.0 BETTER |
| 72-Hf-179 | ENOORMOUS in Res. region | 99-Es-254 | HORRIBLE |
| 72-Hf-180 | Smaller Res. region | 99-Es-255 | HORRIBLE |
| 73-Ta-181 | Up to 62% | 100-Fm-255 | HORRIBLE |
| 74-W -182 | ENOORMOUS in Res. Region | | |

Appendix G: Earlier Versions of ENDF/B

POINT 2009: ENDF/B-VII.0

ENDF/B-VII.0 was released by CSEWG in November 2006 and is to be frozen for three years until November 2009. As such the Original data included in **POINT 2009** [R1a] is identical to that included in the earlier release **POINT 2007** [R1b]. However, the processed, temperature dependent results may differ because of improvements in the PREPRO ENDF/B Preprocessing Codes, particularly with regard to accuracy, and correct interpretation of the ENDF/B rules as defined by the ENDF/B formats and procedures manual, ENDF-102.

POINT 2007: ENDF/B-VI.8

The version of ENDF/B, preceding ENDF/B-VII.0, namely ENDFV/B-VI, Release 8, contained 328 evaluations [R2]; of the evaluations 13 elemental evaluations are not included in ENDF/B-VII.0 (these have been replaced by isotopic evaluations).

ENDF/B-VII.0 includes 315 evaluations from ENDF/B-VI and 78 evaluations for new isotopes, for a total of 393 evaluations in ENDF/B-VII.0. The contents of ENDF/B-VII.0 are defined in the Appendix A. The appendix includes a variety of what I hope are useful summaries of the VII.0, including,

- 1) Contents of ENDF/B-VII.0 (78 new + 315 old = 393 total evaluations)
- 2) Elemental Evaluations Replaced by Isotopic evaluations (16 new, 19 old)
- 3) New Evaluations for ENDF/B-VII.0 (78 new)
- 4) Summary of $\langle \nu(E) \rangle$ for all 65 fissile/fertile isotopes in ENDF/B-VII.0
- 5) Completeness of ENDF/B-VII.0 Evaluations
- 6) Same Evaluations in ENDF/B-VI and VII (315)

Deficiencies and Proposed Updates

ENDF/B-VII.0 was released by CSEWG in November 2006 and is to be frozen for three years until November 2009. All recognized ENDF/B-VII.0 deficiencies and proposed updates can be viewed at,

<http://www.nndc.bnl.gov/exfor/4web/VII.0-deficiencies.html>

These data will be reviewed by CSEWG and these data will serve as the basis for the next version of ENDF/B, namely ENDF/B-VII.1.

New Evaluations for ENDF/B-VII.0 (78 new)

After six versions of ENDF/B over almost 40 years, most of the important isotopes have already been evaluated and included in earlier versions of ENDF/B. The new ENDF/B-VII evaluations were difficult to do, since usually there is little experimental data for rarer isotopes. Most of the new evaluations are complete in the sense that they include major cross sections from 10^{-5} eV to 20 MeV. The except is 4-Be-7 which only extends up to 8.1 MeV, and only includes elastic and charged particle reactions; this is a theoretical evaluation that should not have been included in ENDF/B-VII.0. Many of the other evaluations are pretty bad; better than nothing, but crude, so **CAVEAT EMPTOR!**

The below table includes a list of all 78 new evaluations. If there are no comments, I judge the evaluation to be o.k.

78 New Evaluations

| Material | Comments | Material | Comments |
|------------|----------------------|------------|-----------------------|
| 4-Be- 7 | Useless partial | 67-Ho-166M | Crude |
| 11-Na- 22 | Crude | 68-Er-162 | |
| 12-Mg- 25 | | 68-Er-164 | |
| 12-Mg- 26 | | 68-Er-168 | |
| 16-S - 33 | | 68-Er-170 | |
| 16-S - 34 | | 80-Hg-196 | Crude |
| 16-S - 36 | Crude | 80-Hg-198 | Crude, check capture |
| 18-Ar- 36 | Crude | 80-Hg-199 | |
| 18-Ar- 38 | Crude | 80-Hg-200 | |
| 19-K - 39 | | 80-Hg-201 | |
| 19-K - 40 | Very crude | 80-Hg-202 | Crude, check capture |
| 20-Ca- 40 | o.k. to 20 MeV | 80-Hg-204 | Very crude |
| 20-Ca- 42 | " | 82-Pb-204 | |
| 20-Ca- 43 | " | 88-Ra-223 | Very crude |
| 20-Ca- 44 | " | 88-Ra-224 | Very crude |
| 20-Ca- 46 | Very crude | 88-Ra-225 | Very crude |
| 20-Ca- 48 | o.k. to 20 MeV | 88-Ra-226 | |
| 22-Ti- 49 | | 89-Ac-225 | Very crude |
| 27-Co- 58 | Very crude | 89-Ac-226 | Very crude |
| 27-Co- 58M | Very crude | 89-Ac-227 | Very crude |
| 30-Zn-Nat | Check (n,alpha) | 90-Th-227 | Very crude |
| 31-Ga- 69 | | 90-Th-228 | Rubbish |
| 31-Ga- 71 | | 90-Th-229 | (n,n') down to 100 eV |
| 32-Ge- 70 | | 90-Th-233 | Very crude |
| 33-As- 74 | | 90-Th-234 | Rubbish |
| 34-Se- 79 | Crude | 92-U -239 | Weird resonances |
| 47-Ag-110M | (n,n') down to 3 eV? | 92-U -240 | |
| 50-Sn-113 | Resonance gap | 92-U -241 | Weird resonances |
| 54-Xe-123 | Very crude | 93-Np-235 | Very crude |
| 56-Ba-130 | | 94-Pu-246 | Very crude |
| 56-Ba-132 | Crude | 95-Am-244 | Very crude |
| 56-Ba-133 | | 95-Am-244M | Very crude |
| 57-La-138 | | 96-Cm-249 | |
| 58-Ce-136 | | 96-Cm-250 | Crude |
| 58-Ce-138 | | 97-Bk-250 | Weird resonances |
| 58-Ce-139 | | 98-Cf-254 | Very crude |
| 64-Gd-153 | | 99-Es-254 | Very crude |
| 66-Dy-156 | | 99-Es-255 | Very crude |
| 66-Dy-158 | | 100-Fm-255 | Very crude |

Completeness of ENDF/B-VII.0 Evaluations

For ENDF/B-VI.8, I judged that only about half of the 328 evaluations were complete and physically acceptable enough to be used in neutron transport calculations. In contrast in ENDF/B-VII.0, only a few evaluations are incomplete (10^{-5} eV to 20 MeV) or physically unacceptable (negative cross sections). Below is a summary (no comment = o.k.)

| Material | Comments | | | |
|------------|----------|---------------------|---------------|---------------------------|
| ZA001001 | mt= 50 | no inelastic | | |
| ZA001002 | mt= 50 | no inelastic | | |
| ZA001003 | mt= 102 | no capture | | |
| ZA001003 | mt= 50 | no inelastic | | |
| ZA002003 | mt= 50 | no inelastic | | |
| ZA002004 | mt= 102 | no capture | | |
| ZA002004 | mt= 50 | no inelastic | | |
| ZA004007 | mt= 2 | cross section ends | 8.1000D+06 eV | Incomplete only elastic |
| ZA004007 | mt= 1 | no total | | up to 8.1 MeV |
| ZA004007 | mt= 102 | no capture | | |
| ZA004007 | mt= 50 | no inelastic | | |
| ZA004009 | mt= 50 | no inelastic | | |
| ZA005010 | mt= 102 | cross section ends | 5.0000D+05 eV | |
| ZA017035 | mt= 2 | cross section start | 1.4519D-05 eV | Negative elastic |
| ZA018040 | mt= 2 | cross section <=0 | 9.7825D+05 eV | Negative elastic |
| ZA020040 | mt= 2 | cross section <=0 | 5.0000D+05 eV | Negative elastic |
| ZA021045 | mt= 102 | cross section ends | 5.0000D+06 eV | |
| ZA026056 | mt= 2 | cross section <=0 | 1.1971D+06 eV | Negative elastic |
| ZA027058 | mt= 102 | cross section <=0 | 8.4925D+00 eV | Negative capture |
| ZA027058.M | mt= 51 | level energy > 0 | 2.4900D+04 eV | |
| ZA028059 | mt= 50 | no inelastic | | Incomplete |
| ZA028061 | mt= 2 | cross section <=0 | 7.4355D+05 eV | Negative elastic |
| ZA041093 | mt= 2 | cross section <=0 | 2.3344D+03 eV | Negative elastic |
| ZA047110.M | mt= 51 | level energy > 0 | 1.1760D+05 eV | |
| ZA047110.M | mt= 52 | level energy > 0 | 1.0660D+05 eV | |
| ZA048108 | mt= 102 | cross section ends | 1.0000D+07 eV | |
| ZA048110 | mt= 102 | cross section ends | 1.0000D+07 eV | |
| ZA048112 | mt= 102 | cross section ends | 1.0000D+07 eV | |
| ZA048115.M | mt= 51 | level energy > 0 | 1.8100D+05 eV | |
| ZA048116 | mt= 102 | cross section ends | 1.0000D+07 eV | |
| ZA052127.M | mt= 51 | level energy > 0 | 8.8260D+04 eV | |
| ZA052127.M | mt= 52 | level energy > 0 | 2.7140D+04 eV | |
| ZA052129.M | mt= 51 | level energy > 0 | 1.0550D+05 eV | |
| ZA054130 | mt= 102 | cross section ends | 1.0000D+07 eV | |
| ZA061148.M | mt= 51 | level energy > 0 | 1.3790D+05 eV | |
| ZA061148.M | mt= 52 | level energy > 0 | 6.2200D+04 eV | |
| ZA064152 | mt= 2 | cross section <=0 | 3.3186D+01 eV | Negative elastic |
| ZA066160 | mt= 2 | cross section <=0 | 3.3293D+02 eV | Negative elastic |
| ZA067166.M | mt= 51 | level energy > 0 | 5.9850D+03 eV | |
| ZA082207 | mt= 2 | cross section <=0 | 4.7500D+05 eV | Negative elastic |
| ZA090228 | mt= 18 | cross section <=0 | 3.0000D+03 eV | |
| ZA090230 | mt= 2 | cross section <=0 | 1.2856D+00 eV | Negative elastic |
| ZA092240 | mt= 2 | cross section <=0 | 2.2262D+00 eV | Negative elastic |
| ZA094238 | mt= 2 | cross section <=0 | 5.9743D+01 eV | Negative elastic |
| ZA094242 | mt= 2 | cross section <=0 | 2.2348D+00 eV | Negative elastic |
| ZA094244 | mt= 2 | cross section <=0 | 2.0770D+01 eV | Negative elastic |
| ZA095242.M | mt= 51 | level energy > 0 | 4.8600D+04 eV | |
| ZA095242.M | mt= 52 | level energy > 0 | 4.5000D+03 eV | |
| ZA095244.M | mt= 51 | level energy > 0 | 8.8000D+04 eV | |
| ZA096241 | mt= 102 | cross section ends | 4.0000D+06 eV | |
| ZA096242 | mt= 2 | cross section <=0 | 1.3448D+01 eV | Negative elastic |
| ZA096242 | mt= 18 | cross section <=0 | 2.7600D+02 eV | |
| ZA096248 | mt= 2 | cross section <=0 | 6.8142D+00 eV | Negative elastic |
| ZA098250 | mt= 2 | cross section <=0 | 1.4329D+01 eV | Negative elastic |
| ZA098252 | mt= 2 | cross section <=0 | 1.6674D+01 eV | Negative elastic |
| ZA098253 | mt= 18 | cross section ends | 1.1000D+04 eV | Incomplete only to 11 keV |
| ZA098253 | mt= 102 | cross section ends | 1.1000D+04 eV | |
| ZA098253 | mt= 50 | no inelastic | | |
| ZA099253 | mt= 102 | cross section ends | 1.1000D+04 eV | Incomplete only to 11 keV |
| ZA099253 | mt= 50 | no inelastic | | |

Same Evaluations in ENDF/B-VI and VII (315)

Above I stated that ENDF/B-VII.0 includes 315 evaluations from ENDF/B-VI. By this I mean that there are evaluations for the same 315 elements or isotopes in both VI and VII. The contents of these evaluations may be identical to ENDF/B-VI, or completely different. Below I provide a brief, one line summary comparing the contents of ENDF/B-VII.0 to VI.8. These summaries are based only on my comparing major cross sections (total, elastic, capture and fission) for the 315 same evaluations. For more details of any given evaluation the reader can use the COMPILOT code [R3] to “see” comparisons.

The intent here is to hopefully save users time and effort by telling them which evaluations have or have not changed. For example, many metals and fissile isotopes have not changed. There are also materials where the cross sections are what I call “similar”, but which I mean similar resonance structure, but actual cross section values may be quite different.

- 1) Many single level Breit-Wigner (SLBW) resonances have been changed to multi-level (MLBW). In many case this eliminates negative elastic cross sections, and results in what I identify in the following table as “similar”. WARNING – because of the use of non-physical average J values, switching from SLBW to MLBW does not always eliminate negative cross sections. WARNING – “similar” here means similar resonance structure; the actual energy dependent cross sections may be very different.
- 2) Many incomplete ENDF/B-VI evaluations have now been extended up to 20 MeV and are now complete in VII.0. Also the high energy range of many other evaluations were re-done using nuclear model code calculations; this has changed some high energy cross sections by 10 to 20%.
- 3) Many evaluations now include resonance parameters from the latest 2006 version of the atlas of nuclear resonances, BNL-325 [R4]; this has allowed many resonance regions to be extended to higher energies. However, in many cases no additional evaluation was performed to eliminate resonance gaps in the experimentally measured resonance parameters, and many isotopes do not included an unresolved resonance energy range.
- 4) I try to identify evaluations where the major cross sections differ substantially; roughly speaking my criteria was differences of at least ~ 1% .
- 5) I also compared $\langle \nu \rangle$, where smaller differences can be important. For the major fuel, U-233, U-235, and Pu-235, there have been minor ~ 0.5% changes in $\langle \nu \rangle$ which may be reflected in calculated integral parameters, such as K-eff. Some minor fissile/fertile have changes in $\langle \nu \rangle$ of 5 to 10%

315 Same Materials (1-H - 1 to 44-Ru- 99)

| | | | |
|-----------|-----------------------------------|-----------|----------------------------------|
| 1-H - 1 | Elastic 0.3% lower < 10 keV | 32-Ge- 73 | New - completely different |
| 1-H - 2 | Same | 32-Ge- 74 | New - completely different |
| 1-H - 3 | Elastic 30% higher < 1 MeV | 32-Ge- 76 | New - completely different |
| 2-He- 3 | Same | 33-As- 75 | New - resonances > 2 keV |
| 2-He- 4 | Same | 34-Se- 74 | Different |
| 3-Li- 6 | Elastic 7% higher < 0.1 eV | 34-Se- 76 | Different |
| 3-Li- 7 | Same | 34-Se- 77 | Different |
| 4-Be- 9 | Elastic 10% different > 10 eV | 34-Se- 78 | Different |
| 5-B - 10 | Elastic 8% higher ~ 100 keV | 34-Se- 80 | Different |
| 5-B - 11 | Same | 34-Se- 82 | Different |
| 6-C -Nat | Same | 35-Br- 79 | Different |
| 7-N - 14 | Same | 35-Br- 81 | Different |
| 7-N - 15 | Same | 36-Kr- 78 | Different |
| 8-O - 16 | Elastic 7% higher 4 to 9 MeV | 36-Kr- 80 | Different |
| 8-O - 17 | Same | 36-Kr- 82 | Different |
| 9-F - 19 | Different resonances < 1 MeV | 36-Kr- 83 | Different |
| 11-Na- 23 | Same | 36-Kr- 84 | Different |
| 12-Mg- 24 | Same | 36-Kr- 85 | Different |
| 13-Al- 27 | Different resonances < 1 MeV | 36-Kr- 86 | Different |
| 14-Si- 28 | Same | 37-Rb- 85 | Different - fewer resonances |
| 14-Si- 29 | Same | 37-Rb- 86 | Different |
| 14-Si- 30 | Same | 37-Rb- 87 | Different - fewer resonances |
| 15-P - 31 | Same | 38-Sr- 84 | Different |
| 16-S - 32 | Different resonances | 38-Sr- 86 | Different |
| 17-Cl- 35 | Different - resonances > 200 keV | 38-Sr- 87 | Different |
| 17-Cl- 37 | Different - resonances > 200 keV | 38-Sr- 88 | Different |
| 18-Ar- 40 | Completely different | 38-Sr- 89 | Different - both rubbish |
| 19-K - 41 | Same | 38-Sr- 90 | Different - both rubbish |
| 21-Sc- 45 | Same | 39-Y - 89 | Different |
| 22-Ti- 46 | Same | 39-Y - 90 | Different - old rubbish |
| 22-Ti- 47 | Same | 39-Y - 91 | Different - both rubbish |
| 22-Ti- 48 | Same | 40-Zr- 90 | Different - fewer resonances |
| 22-Ti- 50 | Same | 40-Zr- 91 | Different - similar resonances |
| 23-V -Nat | Same | 40-Zr- 92 | Different - fewer resonances |
| 24-Cr- 50 | Same | 40-Zr- 93 | Different - old rubbish |
| 24-Cr- 52 | Same | 40-Zr- 94 | Similar |
| 24-Cr- 53 | Same | 40-Zr- 95 | Different - both rubbish |
| 24-Cr- 54 | Same | 40-Zr- 96 | Similar |
| 25-Mn- 55 | Same | 41-Nb- 93 | Same |
| 26-Fe- 54 | Same | 41-Nb- 94 | Different - both rubbish |
| 26-Fe- 56 | Same | 41-Nb- 95 | Different - both rubbish |
| 26-Fe- 57 | Same | 42-Mo- 92 | Very different > 20 keV |
| 26-Fe- 58 | Same | 42-Mo- 94 | Very different > 6 keV |
| 27-Co- 59 | Same | 42-Mo- 95 | Same < 2 keV - 40% higher energy |
| 28-Ni- 58 | Same | 42-Mo- 96 | Very different > 4 keV |
| 28-Ni- 59 | Very narrow resonance differences | 42-Mo- 97 | Different |
| 28-Ni- 60 | Same | 42-Mo- 98 | Different - old rubbish |
| 28-Ni- 61 | Same | 42-Mo- 99 | Different - both rubbish |
| 28-Ni- 62 | Same | 42-Mo-100 | Very different > 4 keV |
| 28-Ni- 64 | Same | 43-Tc- 99 | Very different > 1 keV |
| 29-Cu- 63 | Same | 44-Ru- 96 | Different - both rubbish |
| 29-Cu- 65 | Same | 44-Ru- 98 | Different - both rubbish |
| 32-Ge- 72 | New - completely different | 44-Ru- 99 | Different > 100 eV |

315 Same Materials (44-Ru- 100 to 61-Pm-148)

| | | | |
|------------|----------------------------------|------------|-----------------------------|
| 44-Ru-100 | Old Rubbish - new poor | 52-Te-126 | More resonances > 6 keV |
| 44-Ru-101 | 50% higher < 10 eV | 52-Te-127M | Different - both rubbish |
| 44-Ru-102 | Similar | 52-Te-128 | More resonances > 3.5 keV |
| 44-Ru-103 | Old Rubbish - new poor | 52-Te-129M | Different - both rubbish |
| 44-Ru-104 | Different > 1 keV | 52-Te-130 | Different |
| 44-Ru-105 | Similar - both rubbish | 52-Te-132 | Different - old rubbish |
| 44-Ru-106 | Similar - both rubbish | 53-I -127 | More resonances > 1 keV |
| 45-Rh-103 | Same < 4 keV - 40% higher energy | 53-I -129 | More resonances > 150 eV |
| 45-Rh-105 | Different - both rubbish | 53-I -130 | Different - old rubbish |
| 46-Pd-102 | Old rubbish - new poor | 53-I -131 | Different - both rubbish |
| 46-Pd-104 | Different - old rubbish | 53-I -135 | Different - both rubbish |
| 46-Pd-105 | Same < 2 keV - 20% higher energy | 54-Xe-124 | Similar |
| 46-Pd-106 | Different - old rubbish | 54-Xe-126 | Different resonances |
| 46-Pd-107 | Very similar | 54-Xe-128 | Similar |
| 46-Pd-108 | Different - old poor | 54-Xe-129 | Similar |
| 46-Pd-110 | Different - old rubbish | 54-Xe-130 | Similar |
| 47-Ag-107 | Different > 3 keV | 54-Xe-131 | Same |
| 47-Ag-109 | Similar < 5 keV - 7% > 100 keV | 54-Xe-132 | Different |
| 47-Ag-111 | New - old rubbish | 54-Xe-133 | Different - both rubbish |
| 48-Cd-106 | No resonances 600 eV - 3 keV | 54-Xe-134 | Different |
| 48-Cd-108 | No resonances 350 eV - 2.6 keV | 54-Xe-135 | Same - both rubbish > 10 eV |
| 48-Cd-110 | Similar | 54-Xe-136 | New - old rubbish |
| 48-Cd-111 | Different < 1 eV 60% lower | 55-Cs-133 | Same - 14% > 100 keV |
| 48-Cd-112 | Similar < 2 keV | 55-Cs-134 | Similar |
| 48-Cd-113 | Similar < 2 keV | 55-Cs-135 | Similar |
| 48-Cd-114 | Same | 55-Cs-136 | Different - new rubbish |
| 48-Cd-115M | New - old rubbish | 55-Cs-137 | Similar - both rubbish |
| 48-Cd-116 | Similar | 56-Ba-134 | Similar < 10 keV |
| 49-In-113 | New resonances > 50 eV | 56-Ba-135 | Similar < 1 keV |
| 49-In-115 | Very different > 1 keV | 56-Ba-136 | Different |
| 50-Sn-112 | Similar | 56-Ba-137 | Different |
| 50-Sn-114 | Different - more resonances | 56-Ba-138 | Similar |
| 50-Sn-115 | Different - both poor | 56-Ba-140 | Different - old rubbish |
| 50-Sn-116 | New resonances > 2 keV | 57-La-139 | Different |
| 50-Sn-117 | Different | 57-La-140 | Different - old rubbish |
| 50-Sn-118 | Similar | 58-Ce-140 | Different - old rubbish |
| 50-Sn-119 | Different | 58-Ce-141 | Different - old rubbish |
| 50-Sn-120 | New resonances > 15 keV | 58-Ce-142 | Different - old rubbish |
| 50-Sn-122 | New resonances > 900 eV | 58-Ce-143 | Different - old rubbish |
| 50-Sn-123 | Different - both rubbish | 58-Ce-144 | Different - both rubbish |
| 50-Sn-124 | New resonances > 700 eV | 59-Pr-141 | Similar |
| 50-Sn-125 | New - old rubbish | 59-Pr-142 | Different - old rubbish |
| 50-Sn-126 | Different - both rubbish | 59-Pr-143 | Different - old rubbish |
| 51-Sb-121 | More resonances > 2.5 keV | 60-Nd-142 | Different |
| 51-Sb-123 | More resonances > 2.5 keV | 60-Nd-143 | Similar - 4% > 100 keV |
| 51-Sb-124 | Different - both rubbish | 60-Nd-144 | Different |
| 51-Sb-125 | Different - both rubbish | 60-Nd-145 | Similar - 5% > 100 keV |
| 51-Sb-126 | Different - old rubbish | 60-Nd-146 | Different |
| 52-Te-120 | Different - both rubbish | 60-Nd-147 | Different > 30 eV |
| 52-Te-122 | More resonances > 4 keV | 60-Nd-148 | Different |
| 52-Te-123 | More resonances > 500 eV | 60-Nd-150 | Different |
| 52-Te-124 | More resonances > 6 keV | 61-Pm-147 | No resonances > 100 eV |
| 52-Te-125 | More resonances > 1 keV | 61-Pm-148 | Different - both rubbish |

315 Same Materials (61-Pm-148M to 99-Es-293)

| | | | |
|------------|--------------------------|------------|----------------------------|
| 61-Pm-148M | Similar - not great | 77-Ir-191 | Very similar |
| 61-Pm-149 | Different - both rubbish | 77-Ir-193 | Similar |
| 61-Pm-151 | Different - old rubbish | 79-Au-197 | Similar |
| 62-Sm-144 | Similar | 82-Pb-206 | Very similar |
| 62-Sm-147 | Similar > 10 eV | 82-Pb-207 | Very similar, 3% ~ 10 MeV |
| 62-Sm-148 | Different - old rubbish | 82-Pb-208 | Very similar |
| 62-Sm-149 | Very similar | 83-Bi-209 | Same |
| 62-Sm-150 | Very similar | 90-Th-230 | Same |
| 62-Sm-151 | Same - 15% > 10 keV | 90-Th-232 | Different resonances |
| 62-Sm-152 | Similar | 91-Pa-231 | Similar < 15 eV |
| 62-Sm-153 | Different - old rubbish | 91-Pa-232 | Similar |
| 62-Sm-154 | Different | 91-Pa-233 | Similar < 40 eV |
| 63-Eu-151 | Very similar | 92-U -232 | Same < 200 eV |
| 63-Eu-152 | Same - 30% > 100 eV | 92-U -233 | Similar to 60 eV |
| 63-Eu-153 | Same - 16% > 100 eV | 92-U -234 | Similar |
| 63-Eu-154 | Different | 92-U -235 | Same - 1% ~ 20 MeV |
| 63-Eu-155 | Very similar | 92-U -236 | Same - 6% ~ 500 keV |
| 63-Eu-156 | Different - both rubbish | 92-U -237 | Similar - weird resonances |
| 63-Eu-157 | Different - old rubbish | 92-U -238 | Similar < 10 keV |
| 64-Gd-152 | Different < 10 eV | 93-Np-236 | Same |
| 64-Gd-154 | Similar | 93-Np-237 | Similar < 150 eV |
| 64-Gd-155 | Same - 20% > 200 eV | 93-Np-238 | Different - both rubbish |
| 64-Gd-156 | Different | 93-Np-239 | Same - both rubbish |
| 64-Gd-157 | Similar, same < 400 eV | 94-Pu-236 | Same |
| 64-Gd-158 | Different | 94-Pu-237 | Same |
| 64-Gd-160 | Different | 94-Pu-238 | Same |
| 65-Tb-159 | Different > 100 eV | 94-Pu-239 | Same |
| 65-Tb-160 | Different - old rubbish | 94-Pu-240 | Same |
| 66-Dy-160 | Very similar | 94-Pu-241 | Same |
| 66-Dy-161 | Similar | 94-Pu-242 | Same |
| 66-Dy-162 | Similar < 5 keV | 94-Pu-243 | Same |
| 66-Dy-163 | Similar | 94-Pu-244 | Same |
| 66-Dy-164 | Similar < 7 keV | 95-Am-241 | Same |
| 67-Ho-165 | Different | 95-Am-242 | Different - old bad |
| 68-Er-166 | Similar < 2 keV | 95-Am-242M | Similar - 30% > 3.5 eV |
| 68-Er-167 | Similar < 500 eV | 95-Am-243 | Same |
| 71-Lu-175 | Same | 96-Cm-241 | Same |
| 71-Lu-176 | Same | 96-Cm-242 | Same |
| 72-Hf-174 | Same | 96-Cm-243 | Same |
| 72-Hf-176 | Same | 96-Cm-244 | Similar < 500 eV |
| 72-Hf-177 | Same | 96-Cm-245 | Same |
| 72-Hf-178 | Same | 96-Cm-246 | Same |
| 72-Hf-179 | Same | 96-Cm-247 | Different |
| 72-Hf-180 | Same | 96-Cm-248 | Same - negative elastic |
| 73-Ta-181 | Same | 97-Bk-249 | Same |
| 73-Ta-182 | Same | 98-Cf-249 | Same |
| 74-W -182 | Same | 98-Cf-250 | Same |
| 74-W -183 | Same | 98-Cf-251 | Same |
| 74-W -184 | Same | 98-Cf-252 | Same |
| 74-W -186 | Same | 98-Cf-253 | Same - partial to 11 keV |
| 75-Re-185 | Same | 99-Es-253 | Same - partial to 11 keV |
| 75-Re-187 | Same | | |

Appendix H: The Effects of Temperature and Doppler Broadening

For those readers who are not familiar with the effects of temperature and Doppler broadening on neutron cross sections and transport, for details I suggest that you read references [R5] and [R6], listed below. Here I will give a brief description of these effects. Users of neutron cross sections should be aware that there are several important effects of temperature and Doppler broadening,

1) There is the well known effect in the neutron resonance region, where as the temperature increases resonances become broader, hence the name Doppler broadening. Figure 1 below illustrates the effect of temperature on the U^{238} capture cross section for neutron reactor like temperatures, and figure 2 illustrates this effect for astrophysical like temperatures. These figures each contain four sub-figures, with each sub-figure comparing cross sections at two progressively higher temperatures. In both figure 1 and 2 each sub-figure shows exactly the same energy and cross section range. From these figures we can see that as temperature increases the peaks of the resonances become lower, and the minima between resonances become higher. At extremely high temperature the entire resonance structure disappears and the cross section approaches a simple $1/v$ shape (where v is the neutron speed). This temperature effect will have a very important effect on resonance self-shielding in any neutron transport calculation. You should note from these figures that due to the large resonance spacing in U^{238} the resonance structure can still be seen up to very high temperatures.

To understand the importance of considering temperature we should consider reaction rates, such as captures/second, in various systems. In optically thin systems (few mean free paths dimensions) the flux will be unshielded, and our reaction rates will be defined by a simple cross section average,

$$\text{Unshielded Capture} = \int_{E1}^{E2} [\Sigma_c(E)\phi(E)]dE = \text{capture cross section times neutron flux}$$

In optically thick systems (many mean free paths dimensions) the flux will be shielded (the flux is suppressed by the total cross section) and our reaction rates must include the effect of self-shielding on the cross section average,

$$\text{Shielded Capture} = \int_{E1}^{E2} [\Sigma_c(E)\phi(E) / \Sigma_t(E)]dE = \text{including one over total cross section}$$

Consider for example the U^{238} capture cross section between 1 and 10 keV as shown in fig. 1 and 2. If we calculate the unshielded and shielded average capture cross section for the energy interval over the range of temperatures shown in figs. 1 and 2, we obtain the results shown below in table 1.

What we see from these results is that the unshielded average capture cross section is virtually independent of temperature, being about 1 barn over the entire temperature

range. In contrast the shielded average cross section varying by over a factor of three between the 0 K average (0.293 barns) and the 10 keV average (0.939 barns). **The point to learn from this is that without including the effect of self-shielding in multi-group calculations, temperature has very little effect on the average cross sections, which is quite simply wrong for optically thick systems.**

Table 1: Effect of Temperature on Average Cross Sections

| Temp. | Unshielded (barns) | Shielded (barns) |
|-----------------|-----------------------|---------------------|
| 0 K | 0.996 | 0.293 |
| 293.6 K | 0.966 | 0.526 |
| 600 K | 0.996 | 0.576 |
| 1,200 K | 0.996 | 0.630 |
| 12,000 K (1 eV) | 0.996 | 0.799 |
| 10 eV | 0.998 | 0.905 |
| 100 eV | 1.000 | 0.933 |
| 1 keV | 1.004 | 0.935 |
| 10 keV | 1.007 | 0.939 |

2) Another, less well known, effect of Doppler broadening is at lower energies where as temperature increases the low energy constant scattering cross section increases and at very low energies approaches a simple $1/v$ shape (where v is the neutron speed); this effect is explained in detail in ref [R5]. Figure 3 illustrates the effect of temperature on the hydrogen total cross section. From this figure we can see that starting from a “cold” (0 Kelvin) cross section that is constant at about 20 barns, as temperature increases the cross section increases. Compared to the “cold” 20 barn cross section, at thermal energy the Doppler broadened cross section is about 30 barns, i.e., 50 % higher. Note also from this figure that this effect extends well above thermal energy. For example, at 293.6 Kelvin the thermal energy is 0.0253 eV, but we can see this effect up to about 1 eV; a factor of 400 higher in energy. From the lower half of figure 2 we can see that at very low energy the cross section approaches a simple $1/v$ shape (where v is the neutron speed) and the cross sections at various temperatures become proportional to one another. This effect on the cross sections at low energy is very important for thermal and low energy neutron systems.

3) Yet another important effect of temperature is that at lower energies neutrons do not slow down in energy as quickly and neutron scatter can even result in the upscatter of neutrons, i.e., when neutrons scatter they can gain, rather than lose, energy. This is a well known effect at low energies, where thermal scattering law data or a free gas model is used to model the interaction of neutrons with target atoms that are moving about with thermal motion. Figure 4 illustrates the effect of temperature on the neutron spectrum over a wide range of temperatures [R7]. This effect can also be important at higher energies, particularly near narrow resonances, where thermal motion of the target atoms can cause neutrons to slightly upscatter, but even slight upscatter can cause a neutron to scatter from below to above the energy of a very narrow resonance. See reference [R6], below for a routine designed to be used in conjunction with the SIGMA1 method of Doppler broadening [R5], to handle neutron thermal scattering. This routine [R6] is completely compatible for use with the cross sections included here, since these cross sections were Doppler broadened using the SIGMA1 method [R5]. The combination of

SIGMA1 [R5] Doppler broadened cross sections and THERMAL [R6] to handle thermal scattering, is currently used in the TART Monte Carlo transport code [R8].

Fig.1: Effect of Doppler Broadening on Resonance Cross Sections

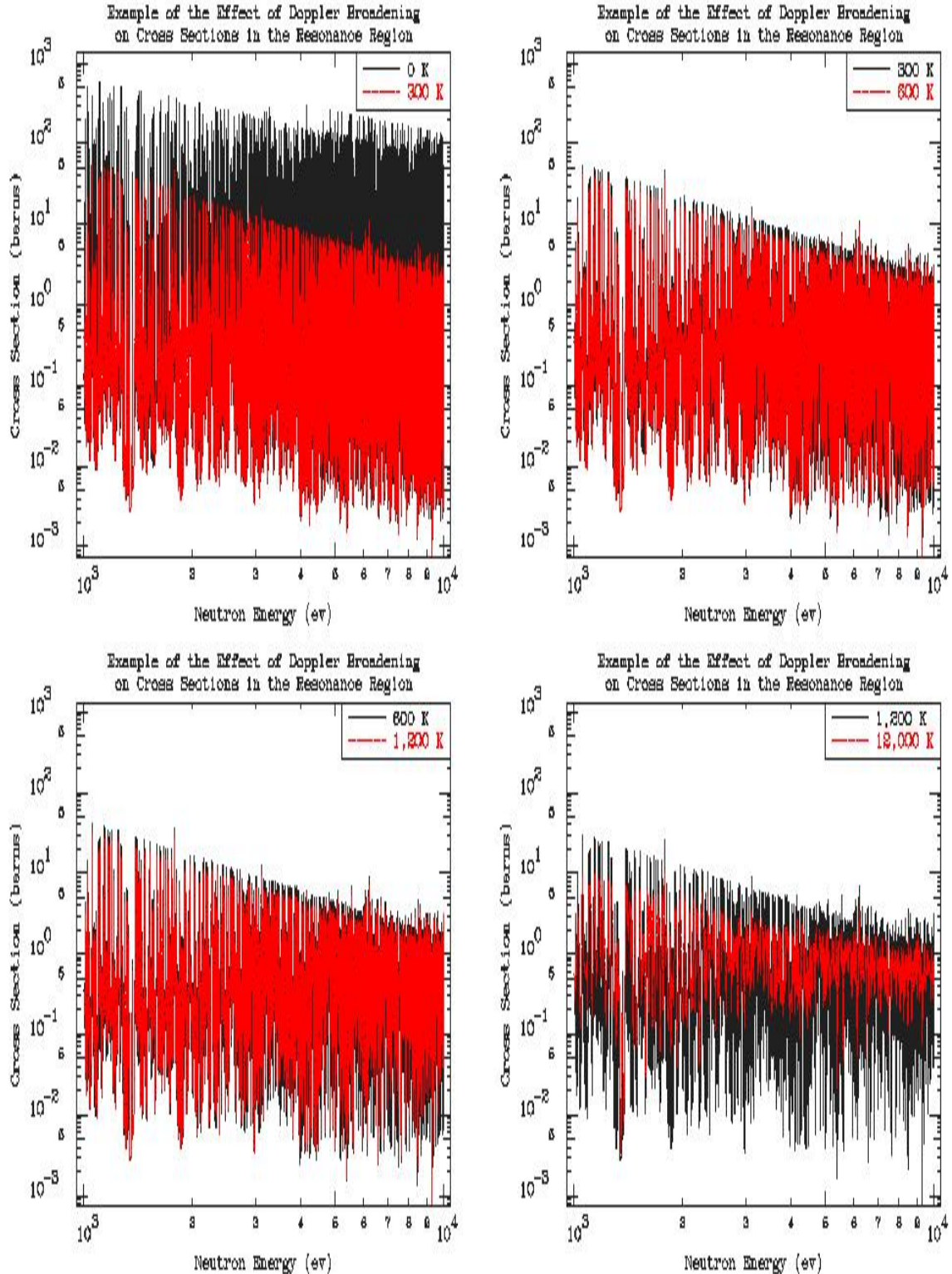


Fig.2: Effect of Doppler Broadening on Resonance Cross Sections

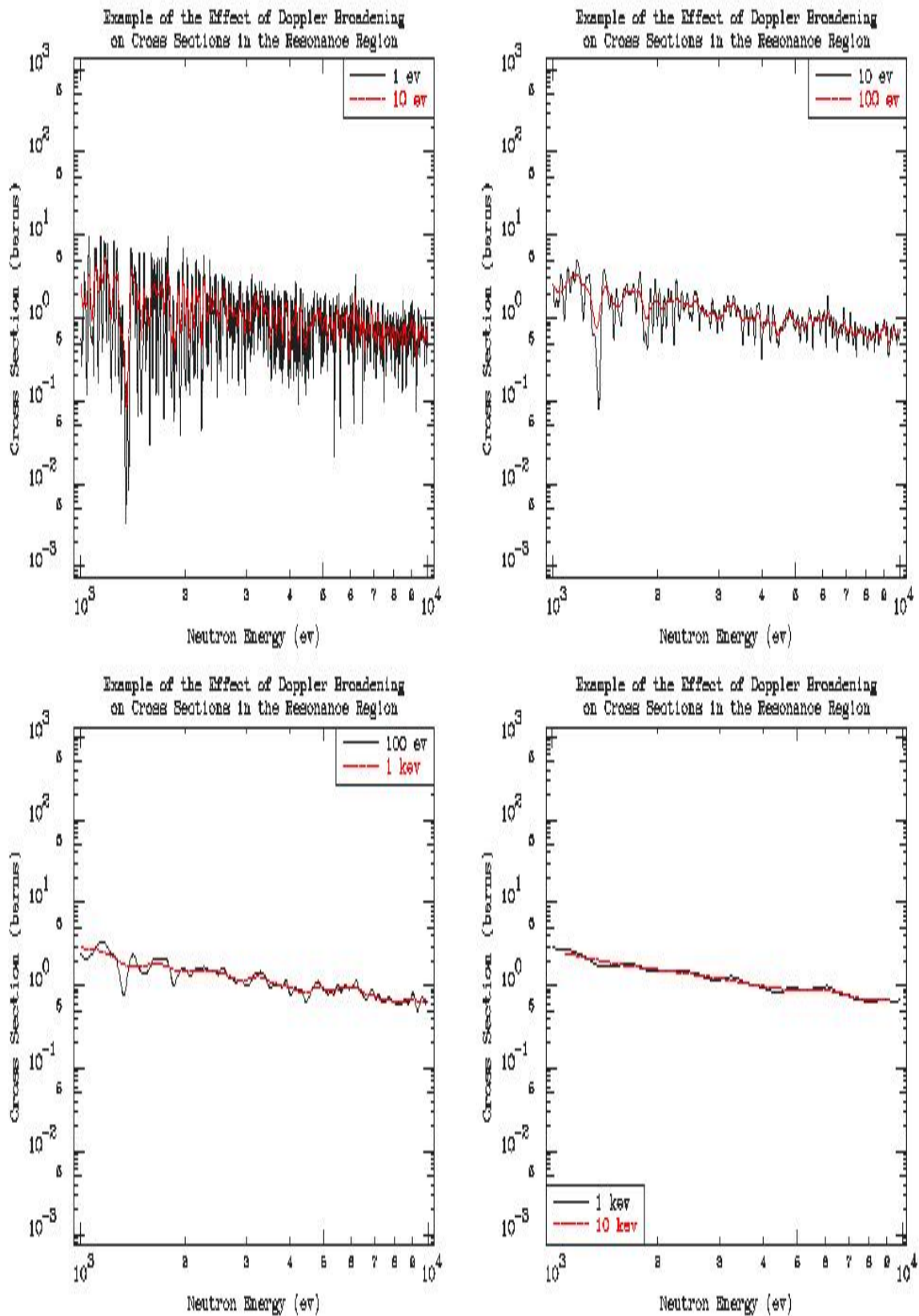


Fig.3: Effect of Doppler Broadening on Low Energy Cross Sections

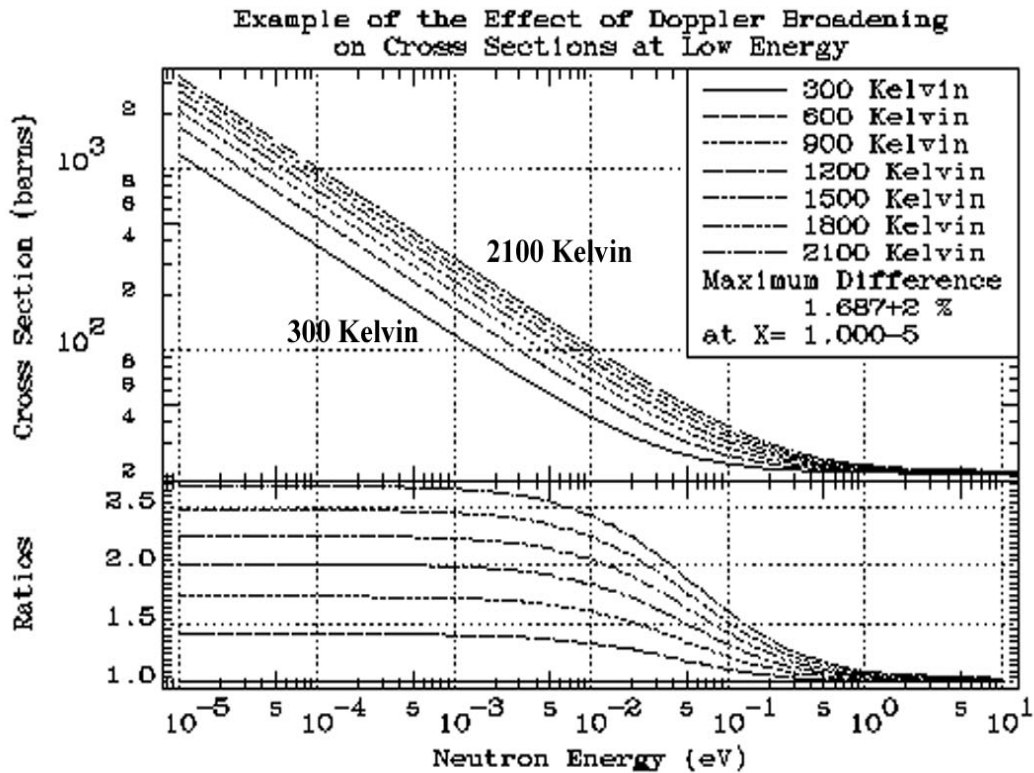
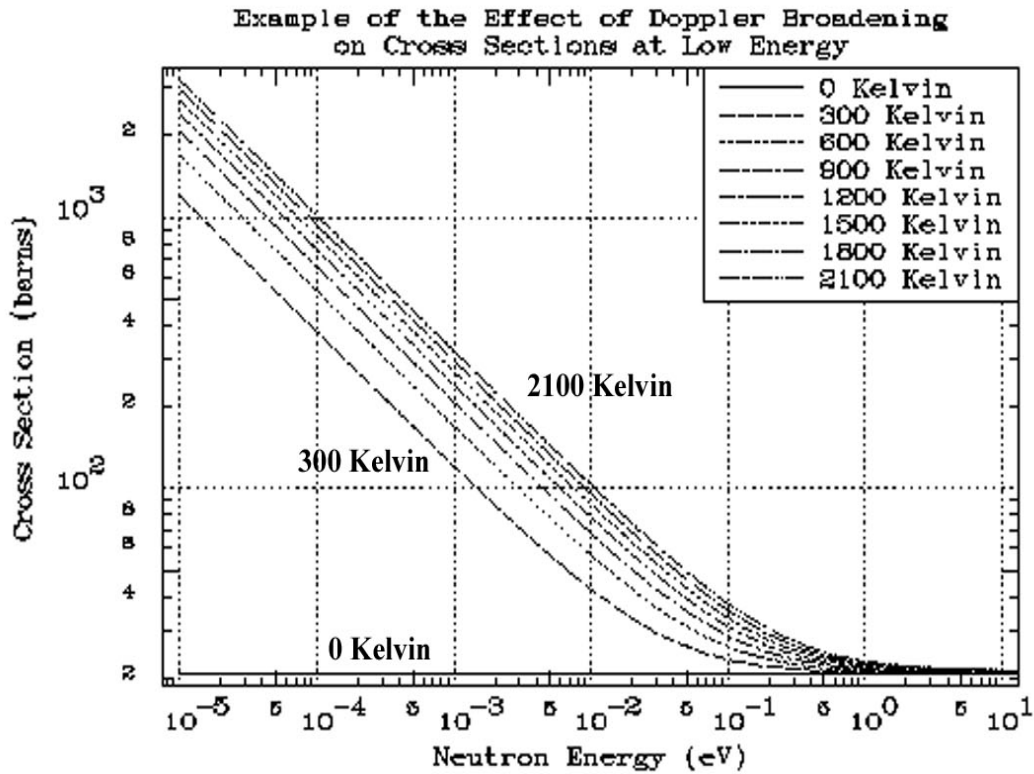
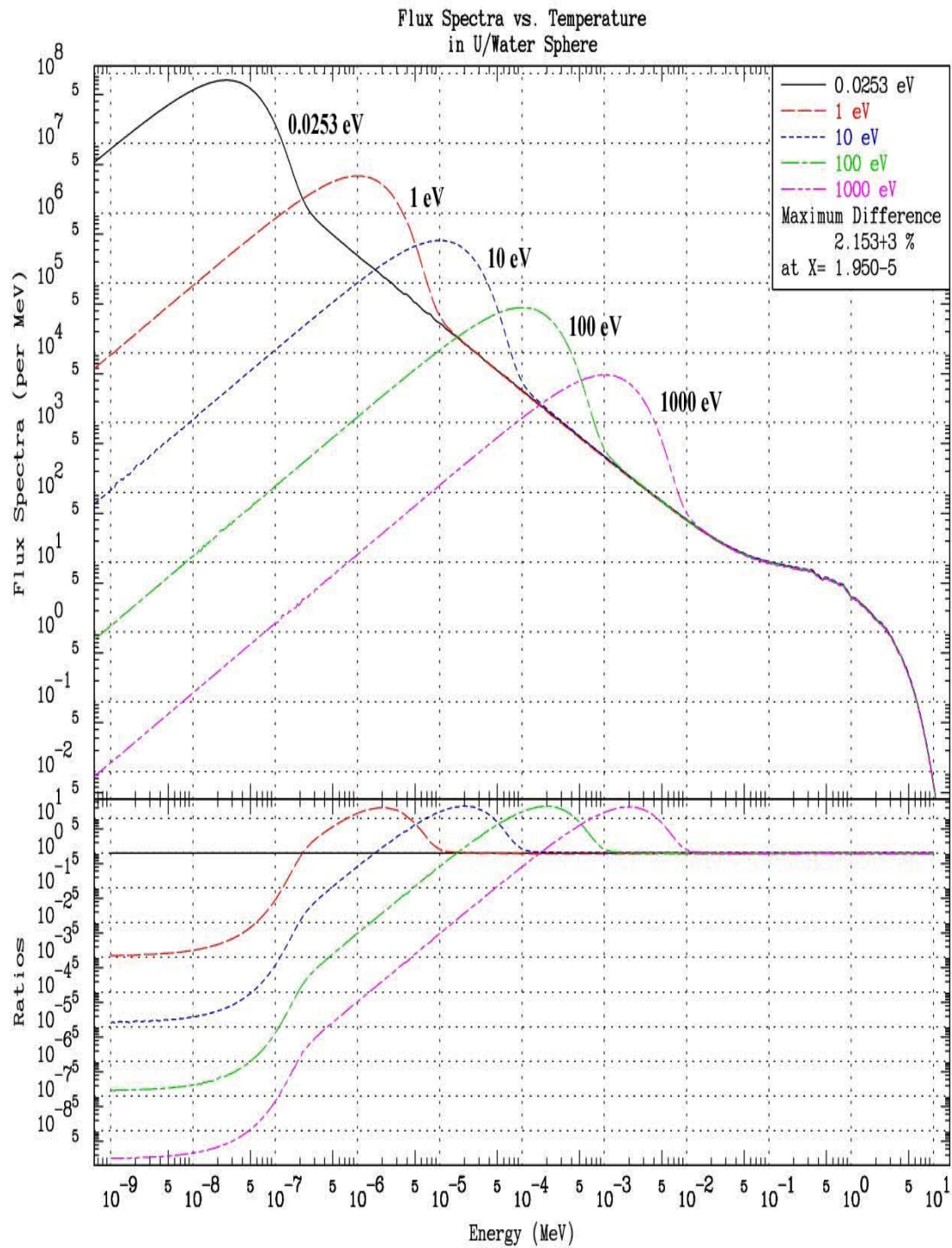


Fig.4: Effect of Doppler Broadening on Neutron Spectrum



Appendix I: MF/MT Differences between VII.1 and VII.0

I have crudely compared the entire contents of VII.1 and VII.0, character by character looking for differences between the two libraries. My comparisons are summarized below based on,

- 1) Ignoring Tape Labels (TPID)
- 2) Ignoring the comment section, MF/MT = 1/451.
- 3) I only compare MF=1 through 6; these can directly affect neutron transport
- 4) Ignoring the first line of each section (MF/MT); these may include minor differences, particularly in the atomic weight.
- 5) When I find differences in any section (MF/MT) I only list the first line
- 6) I identify ALL sections (MF/MT) that only appear in one library

Here I make no attempt to determine how important these differences may be; the following is intended solely to allow you to “see” which sections differ and allow you to look in more detail at the actual data to determine whether or not these differences may be important for YOUR APPLICATIONS.

```
1-H -1
*****
0.000000+0 2.223300+6      0      2      1      2 125 6102
0.000000+0 2.224631+6      0      2      1      2 125 6102
-----
1-H -2
*****
1-H -3
*****
0.000000+0 0.000000+0      0      0      1      199 131 3 1
0.000000+0 0.000000+0      0      0      1      132 131 3 1
-----
-6.257557+6 -6.257557+6      0      0      1      81 131 3 16
-6.257557+6 -6.257557+6      0      0      1      25 131 3 16
-----
2-He-3
*****
2-He-4
*****
0.000000+0 0.000000+0      0      0      1      152 228 3 1
0.000000+0 0.000000+0      0      0      1      257 228 3 1
-----
0.000000+0 0.000000+0      0      0      1      152 228 3 2
0.000000+0 0.000000+0      0      0      1      257 228 3 2
-----
0.000000+0 0.000000+0      0      0      1      152 228 4 2
0.000000+0 0.000000+0      0      0      1      46 228 4 2
-----
3-Li-6
*****
0.000000+0 0.000000+0      0      0      2      353 325 3 1
0.000000+0 0.000000+0      0      0      2      351 325 3 1
-----
0.000000+0 0.000000+0      0      0      1      353 325 3 2
0.000000+0 0.000000+0      0      0      1      351 325 3 2
-----
7.250600+6 7.250600+6      0      0      2      353 325 3 3
7.250600+6 7.250600+6      0      0      2      351 325 3 3
-----
4.800000+6 7.135953-1 4.850000+6 7.168900-1 4.900000+6 7.200415-1 325 3 4
4.800000+6 7.135953-1 4.850000+6 7.172290-1 4.900000+6 7.212533-1 325 3 4
-----
4.800000+6 1.090888-1 4.850000+6 1.173795-1 4.900000+6 1.243773-1 325 3 58
4.800000+6 1.090888-1 4.850000+6 1.177185-1 4.900000+6 1.255891-1 325 3 58
-----
4.783800+6 4.783800+6      0      0      2      185 325 3105
4.783800+6 4.783800+6      0      0      2      179 325 3105
```

```

-----
8.228500-2 2.953700-2 1.424200-2 4.543600-3 9.996101-4 4.870900-5 325 4 2
8.228500-2 2.953700-2 1.424200-2 4.543600-3 9.996100-4 4.870900-5 325 4 2
-----
3-Li-7
*****
4-Be-7
*****
2.389000-3 1.026600-1 2.062300-2 9.809301-4 419 6650
2.389000-3 1.026600-1 2.062300-2 9.809300-4 419 6650
-----
4-Be-9
*****
0.000000+0 0.000000+0 0 0 1 222 425 3 1
0.000000+0 0.000000+0 0 0 1 200 425 3 1
-----
0.000000+0 0.000000+0 0 0 1 222 425 3 2
0.000000+0 0.000000+0 0 0 1 200 425 3 2
-----
0.000000+0 0.000000+0 0 0 1 222 425 3 3
0.000000+0 0.000000+0 0 0 1 200 425 3 3
-----
-1.572800+6 -1.572800+6 0 0 1 24 425 3 16
-1.572800+6 -1.572800+6 0 0 1 23 425 3 16
-----
6.812380+6 6.812380+6 0 0 1 12 425 3102
6.812380+6 6.812380+6 0 0 1 69 425 3102
-----
-6.000000+5 -6.000000+5 0 0 1 26 425 3107
-6.000000+5 -6.000000+5 0 0 1 25 425 3107
-----
-6.000000+5 -6.000000+5 0 0 1 26 425 3800
-6.000000+5 -6.000000+5 0 0 1 25 425 3800
-----
5-B -10
*****
5-B -11
*****
6-C -Nat
*****
7-N -14
*****
0.000000+0 0.000000+0 0 0 1 1560 725 3 1
0.000000+0 0.000000+0 0 0 2 1274 725 3 1
-----
7-N -15
*****
8-O -16
*****
0.000000+0 0.000000+0 0 0 1 2938 825 3 1
0.000000+0 0.000000+0 0 0 1 2316 825 3 1
-----
0.000000+0 0.000000+0 0 0 1 2938 825 3 2
0.000000+0 0.000000+0 0 0 1 2316 825 3 2
-----
0.000000+0 0.000000+0 0 0 1 2938 825 3 3
0.000000+0 0.000000+0 0 0 1 2316 825 3 3
-----
-2.214300+6 -2.214300+6 0 0 1 1674 825 3107
-2.214300+6 -2.214300+6 0 0 3 1208 825 3107
-----
1.800000+7 9.985144-4 1.810000+7 9.634100-4 1.820000+7 9.316549-4 825 3600
1.800000+7 9.985143-4 1.810000+7 9.634100-4 1.820000+7 9.316549-4 825 3600
-----
2.215000+7 8.553504-4 2.245000+7 9.769415-4 2.250000+7 9.960104-4 825 3658
2.215000+7 8.553504-4 2.245000+7 9.769416-4 2.250000+7 9.960104-4 825 3658
-----
2.500000+7 9.763200-4 2.515000+7 9.828137-4 2.545000+7 9.978088-4 825 3659
2.500000+7 9.763200-4 2.515000+7 9.828136-4 2.545000+7 9.978088-4 825 3659
-----
2.335000+7 8.956104-4 2.350000+7 9.915543-4 2.365000+7 1.073998-3 825 3705
2.335000+7 8.956104-4 2.350000+7 9.915544-4 2.365000+7 1.073998-3 825 3705
-----
-2.214300+6 -2.214300+6 0 0 1 1674 825 3800
-2.214300+6 -2.214300+6 0 0 3 1208 825 3800

```

| | | | | | | | | | | | |
|------------------------|------------|------------|------------|------------|------------|------|------|----|--|--|--|
| ----- | | | | | | | | | | | |
| -2.214300+6-5.305000+6 | | 0 | 0 | 1 | 750 | 825 | 3801 | | | | |
| -2.215600+6-5.305000+6 | | 0 | 0 | 1 | 642 | 825 | 3801 | | | | |
| ----- | | | | | | | | | | | |
| -2.214300+6-5.900100+6 | | 0 | 0 | 1 | 500 | 825 | 3802 | | | | |
| -2.215600+6-5.900100+6 | | 0 | 0 | 1 | 477 | 825 | 3802 | | | | |
| ----- | | | | | | | | | | | |
| -2.214300+6-6.069400+6 | | 0 | 0 | 1 | 394 | 825 | 3803 | | | | |
| -2.215600+6-6.069400+6 | | 0 | 0 | 1 | 393 | 825 | 3803 | | | | |
| ----- | | | | | | | | | | | |
| 0.000000+0 | 1.585751+1 | 0 | 2 | 0 | 10 | 825 | 4 | 2 | | | |
| 0.000000+0 | 1.585751+1 | 0 | 2 | 0 | 0 | 825 | 4 | 2 | | | |
| ----- | | | | | | | | | | | |
| 0.000000+0 | 2.354500+6 | 0 | 0 | 8 | 0 | 825 | 4800 | | | | |
| 0.000000+0 | 2.355319+6 | 0 | 0 | 8 | 0 | 825 | 4800 | | | | |
| ----- | | | | | | | | | | | |
| 2.445766+5 | 9.196546-7 | 4.198505-1 | 2.822038+5 | 9.828246-7 | 4.330448-1 | 825 | 6 | 16 | | | |
| 2.445766+5 | 9.196546-7 | 4.198505-1 | 2.822038+5 | 9.828247-7 | 4.330448-1 | 825 | 6 | 16 | | | |
| ----- | | | | | | | | | | | |
| 6.114947+5 | 9.738804-7 | 1.546142-4 | 7.055708+5 | 8.882155-7 | 1.546142-4 | 825 | 6 | 28 | | | |
| 6.114947+5 | 9.738805-7 | 1.546142-4 | 7.055708+5 | 8.882155-7 | 1.546142-4 | 825 | 6 | 28 | | | |
| ----- | | | | | | | | | | | |
| 1.977343+5 | 9.962476-7 | 2.306900+5 | 8.477150-7 | 2.636457+5 | 6.987413-7 | 825 | 6 | 32 | | | |
| 1.977343+5 | 9.962477-7 | 2.306900+5 | 8.477150-7 | 2.636457+5 | 6.987413-7 | 825 | 6 | 32 | | | |
| ----- | | | | | | | | | | | |
| 0.000000+0 | 1.015746-6 | 3.000000+5 | 2.223739-6 | 5.000000+5 | 9.867993-7 | 825 | 6 | 41 | | | |
| 0.000000+0 | 1.015746-6 | 3.000000+5 | 2.223739-6 | 5.000000+5 | 9.867992-7 | 825 | 6 | 41 | | | |
| ----- | | | | | | | | | | | |
| 3.823334+5 | 4.938590-7 | 0.000000+0 | 5.352667+5 | 9.883044-7 | 0.000000+0 | 825 | 6 | 45 | | | |
| 3.823334+5 | 4.938590-7 | 0.000000+0 | 5.352667+5 | 9.883043-7 | 0.000000+0 | 825 | 6 | 45 | | | |
| ----- | | | | | | | | | | | |
| 6.650000+6 | 3.40521-11 | 6.750000+6 | 1.84818-11 | 6.850000+6 | 9.553715-7 | 825 | 6 | 91 | | | |
| 6.650000+6 | 3.40521-11 | 6.750000+6 | 1.84818-11 | 6.850000+6 | 9.553716-7 | 825 | 6 | 91 | | | |
| ----- | | | | | | | | | | | |
| 9.141613+5 | 1.014379-6 | 1.066521+6 | 9.583486-7 | 1.218882+6 | 8.545213-7 | 825 | 6108 | | | | |
| 9.141613+5 | 1.014379-6 | 1.066521+6 | 9.583485-7 | 1.218882+6 | 8.545213-7 | 825 | 6108 | | | | |
| ----- | | | | | | | | | | | |
| 1.605800+6 | 9.760535-7 | 7.638345-4 | 1.758734+6 | 9.063894-7 | 1.025215-3 | 825 | 6112 | | | | |
| 1.605800+6 | 9.760534-7 | 7.638345-4 | 1.758734+6 | 9.063894-7 | 1.025215-3 | 825 | 6112 | | | | |
| ----- | | | | | | | | | | | |
| 8-O -17 | | | | | | | | | | | |
| ***** | | | | | | | | | | | |
| 9-F -19 | | | | | | | | | | | |
| ***** | | | | | | | | | | | |
| 1.000000-5 | 1.000000+6 | 1 | 7 | 0 | 1 | 925 | 2151 | | | | |
| 1.000000-5 | 2.000000+7 | 0 | 0 | 0 | 0 | 925 | 2151 | | | | |
| ----- | | | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 541 | 925 | 3 | 1 | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 2083 | 925 | 3 | 1 | | | |
| ----- | | | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 475 | 925 | 3 | 2 | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1024 | 925 | 3 | 2 | | | |
| ----- | | | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 384 | 925 | 3 | 3 | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1824 | 925 | 3 | 3 | | | |
| ----- | | | | | | | | | | | |
| 0.000000+0-1.100000+5 | | 0 | 0 | 1 | 158 | 925 | 3 | 4 | | | |
| 0.000000+0-1.099000+5 | | 0 | 0 | 1 | 266 | 925 | 3 | 4 | | | |
| ----- | | | | | | | | | | | |
| 0.000000+0-1.100000+5 | | 0 | 0 | 1 | 64 | 925 | 3 | 51 | | | |
| 0.000000+0-1.099000+5 | | 0 | 0 | 1 | 133 | 925 | 3 | 51 | | | |
| ----- | | | | | | | | | | | |
| 0.000000+0-1.970000+5 | | 0 | 0 | 1 | 44 | 925 | 3 | 52 | | | |
| 0.000000+0-1.970000+5 | | 0 | 0 | 1 | 77 | 925 | 3 | 52 | | | |
| ----- | | | | | | | | | | | |
| 6.601370+6 | 6.601370+6 | 0 | 0 | 1 | 217 | 925 | 3102 | | | | |
| 6.601300+6 | 6.601300+6 | 0 | 0 | 1 | 1651 | 925 | 3102 | | | | |
| ----- | | | | | | | | | | | |
| 11-Na-22 | | | | | | | | | | | |
| ***** | | | | | | | | | | | |
| 1.450000+2 | 3.500000+0 | 2.990000+1 | 2.890000+1 | 1.000000+0 | 0.000000+0 | 1122 | 2151 | | | | |
| 1.450000+2 | 3.500000+0 | 1.439000+2 | 2.890000+1 | 1.000000+0 | 0.000000+0 | 1122 | 2151 | | | | |
| ----- | | | | | | | | | | | |
| 11-Na-23 | | | | | | | | | | | |
| ***** | | | | | | | | | | | |

| | | | | | | | |
|------------------------|------------|---|---|---|----------|------|------------------|
| 1.000000-5 | 5.000000+5 | 1 | 2 | 0 | 01125 | 2151 | |
| 6.000000+2 | 5.000000+5 | 1 | 2 | 0 | 01125 | 2151 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 7031125 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 14071125 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 18151125 | 3 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 14071125 | 3 | 2 |
| | | | | | 1125 | 3 | 3 Only in VII.0 |
| 0.000000+0-4.399910+5 | | 0 | 0 | 1 | 14011125 | 3 | 4 |
| 0.000000+0-4.400000+5 | | 0 | 0 | 1 | 3251125 | 3 | 4 |
| -1.241800+7-1.241800+7 | | 0 | 0 | 1 | 111125 | 3 | 16 |
| -1.241400+7-1.241400+7 | | 0 | 0 | 1 | 121125 | 3 | 16 |
| | | | | | 1125 | 3 | 22 Only in VII.1 |
| | | | | | 1125 | 3 | 28 Only in VII.1 |
| 0.000000+0-4.399910+5 | | 0 | 0 | 1 | 11651125 | 3 | 51 |
| 0.000000+0-4.400000+5 | | 0 | 0 | 1 | 1621125 | 3 | 51 |
| 0.000000+0-2.076010+6 | | 0 | 0 | 1 | 941125 | 3 | 52 |
| 0.000000+0-2.078000+6 | | 0 | 0 | 1 | 471125 | 3 | 52 |
| 0.000000+0-2.390730+6 | | 0 | 0 | 1 | 1071125 | 3 | 53 |
| 0.000000+0-2.393000+6 | | 0 | 0 | 1 | 461125 | 3 | 53 |
| 0.000000+0-2.639860+6 | | 0 | 0 | 1 | 951125 | 3 | 54 |
| 0.000000+0-2.640000+6 | | 0 | 0 | 1 | 271125 | 3 | 54 |
| 0.000000+0-2.703500+6 | | 0 | 0 | 1 | 911125 | 3 | 55 |
| 0.000000+0-2.705000+6 | | 0 | 0 | 1 | 201125 | 3 | 55 |
| 0.000000+0-2.982060+6 | | 0 | 0 | 1 | 991125 | 3 | 56 |
| 0.000000+0-2.983000+6 | | 0 | 0 | 1 | 141125 | 3 | 56 |
| 0.000000+0-3.677600+6 | | 0 | 0 | 1 | 811125 | 3 | 57 |
| 0.000000+0-3.680000+6 | | 0 | 0 | 1 | 161125 | 3 | 57 |
| 0.000000+0-3.848070+6 | | 0 | 0 | 1 | 841125 | 3 | 58 |
| 0.000000+0-3.880000+6 | | 0 | 0 | 1 | 161125 | 3 | 58 |
| 0.000000+0-3.914240+6 | | 0 | 0 | 1 | 811125 | 3 | 59 |
| 0.000000+0-4.430000+6 | | 0 | 0 | 1 | 121125 | 3 | 59 |
| 0.000000+0-4.429630+6 | | 0 | 0 | 1 | 771125 | 3 | 60 |
| 0.000000+0-4.770000+6 | | 0 | 0 | 1 | 121125 | 3 | 60 |
| 0.000000+0-4.774610+6 | | 0 | 0 | 1 | 731125 | 3 | 61 |
| 0.000000+0-5.380000+6 | | 0 | 0 | 1 | 121125 | 3 | 61 |
| 0.000000+0-5.378560+6 | | 0 | 0 | 1 | 581125 | 3 | 62 |
| 0.000000+0-5.530000+6 | | 0 | 0 | 1 | 101125 | 3 | 62 |
| 0.000000+0-5.534000+6 | | 0 | 0 | 1 | 621125 | 3 | 63 |
| 0.000000+0-5.760000+6 | | 0 | 0 | 1 | 81125 | 3 | 63 |
| 0.000000+0-5.741800+6 | | 0 | 0 | 1 | 721125 | 3 | 64 |
| 0.000000+0-5.955000+6 | | 0 | 0 | 1 | 81125 | 3 | 64 |
| 0.000000+0-5.766030+6 | | 0 | 0 | 1 | 711125 | 3 | 65 |
| 0.000000+0-6.078500+6 | | 0 | 0 | 1 | 91125 | 3 | 65 |
| 0.000000+0-5.778000+6 | | 0 | 0 | 1 | 701125 | 3 | 66 |
| 0.000000+0-6.270000+6 | | 0 | 0 | 1 | 101125 | 3 | 66 |
| 0.000000+0-5.926800+6 | | 0 | 0 | 1 | 641125 | 3 | 67 |
| 0.000000+0-7.110000+6 | | 0 | 0 | 1 | 81125 | 3 | 67 |
| 0.000000+0-5.964400+6 | | 0 | 0 | 1 | 651125 | 3 | 68 |
| 0.000000+0-7.790000+6 | | 0 | 0 | 1 | 101125 | 3 | 68 |
| | | | | | 1125 | 3 | 69 Only in VII.1 |
| | | | | | 1125 | 3 | 70 Only in VII.1 |
| | | | | | 1125 | 3 | 71 Only in VII.1 |

| | | | | | |
|-----------------------|-------------|---|---|---|-------------------------|
| | | | | | 1125 3 72 Only in VII.1 |
| | | | | | 1125 3 73 Only in VII.1 |
| | | | | | 1125 3 74 Only in VII.1 |
| | | | | | 1125 3 75 Only in VII.1 |
| | | | | | 1125 3 76 Only in VII.1 |
| | | | | | 1125 3 77 Only in VII.1 |
| | | | | | 1125 3 78 Only in VII.1 |
| | | | | | 1125 3 79 Only in VII.1 |
| | | | | | 1125 3 80 Only in VII.1 |
| | | | | | 1125 3 81 Only in VII.1 |
| | | | | | 1125 3 82 Only in VII.1 |
| | | | | | 1125 3 83 Only in VII.1 |
| | | | | | 1125 3 84 Only in VII.1 |
| | | | | | 1125 3 85 Only in VII.1 |
| | | | | | 1125 3 86 Only in VII.1 |
| | | | | | 1125 3 87 Only in VII.1 |
| | | | | | 1125 3 88 Only in VII.1 |
| | | | | | 1125 3 89 Only in VII.1 |
| 0.000000+0-5.367790+6 | | 0 | 0 | 1 | 1111125 3 91 |
| 0.000000+0-5.843600+6 | | 0 | 0 | 1 | 601125 3 91 |
| ----- | | | | | |
| 6.960000+6 | 6.960000+6 | 0 | 0 | 1 | 12031125 3102 |
| 6.959490+6 | 6.959490+6 | 0 | 0 | 4 | 341125 3102 |
| ----- | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1691125 3103 |
| -3.597000+6 | -3.597000+6 | 0 | 0 | 1 | 1021125 3103 |
| ----- | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1191125 3107 |
| -3.866000+6 | -3.866000+6 | 0 | 0 | 1 | 1011125 3107 |
| ----- | | | | | |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 2 |
| 0.000000+0 | 2.279200+1 | 0 | 2 | 0 | 01125 4 2 |
| ----- | | | | | |
| | | | | | 1125 4 16 Only in VII.0 |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 51 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 51 |
| ----- | | | | | |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 52 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 52 |
| ----- | | | | | |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 53 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 53 |
| ----- | | | | | |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 54 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 54 |
| ----- | | | | | |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 55 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 55 |
| ----- | | | | | |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 56 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 56 |
| ----- | | | | | |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 57 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 57 |
| ----- | | | | | |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 58 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 58 |
| ----- | | | | | |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 59 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 59 |
| ----- | | | | | |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 60 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 60 |
| ----- | | | | | |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 61 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 61 |
| ----- | | | | | |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 62 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 62 |
| ----- | | | | | |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 63 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 63 |
| ----- | | | | | |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 64 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 64 |

| | | | | | |
|------------|------------|---|---|---|------------|
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 65 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 65 |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 66 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 66 |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 67 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 67 |
| 0.000000+0 | 2.279230+1 | 0 | 2 | 0 | 01125 4 68 |
| 0.000000+0 | 2.279200+1 | 1 | 2 | 0 | 01125 4 68 |

1125 4 69 Only in VII.1
1125 4 70 Only in VII.1
1125 4 71 Only in VII.1
1125 4 72 Only in VII.1
1125 4 73 Only in VII.1
1125 4 74 Only in VII.1
1125 4 75 Only in VII.1
1125 4 76 Only in VII.1
1125 4 77 Only in VII.1
1125 4 78 Only in VII.1
1125 4 79 Only in VII.1
1125 4 80 Only in VII.1
1125 4 81 Only in VII.1
1125 4 82 Only in VII.1
1125 4 83 Only in VII.1
1125 4 84 Only in VII.1
1125 4 85 Only in VII.1
1125 4 86 Only in VII.1
1125 4 87 Only in VII.1
1125 4 88 Only in VII.1
1125 4 89 Only in VII.1
1125 4 91 Only in VII.0
1125 5 16 Only in VII.0
1125 5 91 Only in VII.0
1125 6 16 Only in VII.1
1125 6 22 Only in VII.1
1125 6 28 Only in VII.1
1125 6 91 Only in VII.1
1125 6102 Only in VII.1

12-Mg-24

12-Mg-25

12-Mg-26

13-Al-27

14-Si-28

14-Si-29

5.500000+7 2.388798-4 6.000000+7 9.815152-4 6.500000+7 1.757600-31428 6 5
5.500000+7 2.388798-4 6.000000+7 9.815151-4 6.500000+7 1.757600-31428 6 5

14-Si-30

1.039306+6 9.737475-7 1.212524+6 7.251625-7 1.385742+6 1.730027-71431 6 5
1.039306+6 9.737476-7 1.212524+6 7.251625-7 1.385742+6 1.730027-71431 6 5

15-P -31

0.000000+0 0.000000+0 0 0 1 5101525 3 1
0.000000+0 0.000000+0 0 0 2 4051525 3 1

0.000000+0 0.000000+0 0 0 1 2861525 3 2
0.000000+0 0.000000+0 0 0 1 2851525 3 2

0.000000+0 0.000000+0 0 0 1 1641525 3 5
0.000000+0 0.000000+0 0 0 1 1631525 3 5

7.930000+6 7.930000+6 0 0 1 1951525 3102
7.930000+6 7.930000+6 0 0 2 911525 3102

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6.948146+5 8.370184-7 9.264195+5 9.708006-7 1.158024+6 9.552120-7 1525 6 5
6.948146+5 8.370184-7 9.264195+5 9.708005-7 1.158024+6 9.552121-7 1525 6 5
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16-S -32
*****
8.468570-2-9.955131-4-4.789310-2 2.259380-4 8.620540-3-1.526400-3 1625 4 56
8.468570-2-9.955130-4-4.789310-2 2.259380-4 8.620540-3-1.526400-3 1625 4 56
-----
16-S -33
*****
9.708079-7 8.318220-8 6.959210-9 4.43943-10 1628 4 2
9.708080-7 8.318220-8 6.959210-9 4.43943-10 1628 4 2
-----
16-S -34
*****
4 2 68 5 1631 3 1
3 2 68 5 1631 3 1
-----
2.993170-4 5.444440-5 6.873360-6 9.945539-7 1.306950-7 1.268380-8 1631 4 2
2.993170-4 5.444440-5 6.873360-6 9.945540-7 1.306950-7 1.268380-8 1631 4 2
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16-S -36
*****
1.340760+7 0.000000+0 1.500000+7 4.607200-5 1.600000+7 9.939451-4 1637 3 28
1.340760+7 0.000000+0 1.500000+7 4.607200-5 1.600000+7 9.939450-4 1637 3 28
-----
17-Cl-35
*****
1.000000-5 1.200000+6 1 7 0 01725 2151
1.000000-5 1.200000+6 0 0 0 01725 2151
-----
0.000000+0 0.000000+0 0 0 2 2341725 3 1
0.000000+0 0.000000+0 0 0 1 283511725 3 1
-----
0.000000+0 0.000000+0 0 0 1 2311725 3 2
0.000000+0 0.000000+0 0 0 1 200391725 3 2
-----
8.579770+6 8.579770+6 0 0 2 561725 3102
8.579770+6 8.579770+6 0 0 1 200391725 3102
-----
6.152200+5 6.152200+5 0 0 1 801725 3103
6.152200+5 6.152200+5 0 0 1 60311725 3103
-----
9.382300+5 9.382300+5 0 0 1 24971725 3107
9.382300+5 9.382300+5 0 0 1 86291725 3107
-----
6.152200+5 6.152200+5 0 0 1 801725 3600
6.152200+5 6.152200+5 0 0 1 54131725 3600
-----
9.844741+5 0.000000+0 9.848862+5 3.38607-22 9.850922+5 4.70291-22 1725 3601
9.844741+5 7.51750-23 9.848862+5 3.38607-22 9.850922+5 4.70291-22 1725 3601
-----
1.415360+6 0.000000+0 1.750000+6 1.00000-20 1.769170+6 3.99756-21 1725 3602
1.415360+6 1.00000-20 1.750000+6 1.00000-20 1.769170+6 3.99756-21 1725 3602
-----
1.781940+6 0.000000+0 1.814008+6 1.47068-21 1.858577+6 3.51455-21 1725 3603
1.781940+6 1.47064-21 1.814008+6 1.47068-21 1.858577+6 3.51455-21 1725 3603
-----
2.162610+6 0.000000+0 2.274950+6 1.04658-20 2.390705+6 1.26266-20 1725 3604
2.162610+6 1.00000-20 2.274950+6 1.04658-20 2.390705+6 1.26266-20 1725 3604
-----
2.392856+6 0.000000+0 2.452838+6 5.68485-21 2.500000+6 1.00000-20 1725 3605
2.392856+6 1.96717-22 2.452838+6 5.68485-21 2.500000+6 1.00000-20 1725 3605
-----
2.886400+6 0.000000+0 3.000000+6 1.00000-20 3.026624+6 1.17666-20 1725 3606
2.886400+6 4.81738-21 3.000000+6 1.00000-20 3.026624+6 1.17666-20 1725 3606
-----
3.030230+6 0.000000+0 3.089353+6 2.69006-21 3.089354+6 2.69010-21 1725 3607
3.030230+6 1.69472-21 3.089353+6 2.69006-21 3.089354+6 2.69010-21 1725 3607
-----
3.067480+6 0.000000+0 3.089354+6 1.19845-21 3.139283+6 3.93400-21 1725 3608
3.067480+6 1.19840-21 3.089354+6 1.19845-21 3.139283+6 3.93400-21 1725 3608
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3.147730+6 0.000000+0 3.157392+6 9.44754-22 3.250000+6 1.00000-20 1725 3609

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|------------|------------|------------|------------|------------|----------------|------|
| 3.147730+6 | 9.44656-22 | 3.157392+6 | 9.44754-22 | 3.250000+6 | 1.00000-201725 | 3609 |
| 3.278600+6 | 0.000000+0 | 3.364815+6 | 3.89414-21 | 3.386421+6 | 4.87001-211725 | 3610 |
| 3.278600+6 | 7.38837-22 | 3.364815+6 | 3.89414-21 | 3.386421+6 | 4.87001-211725 | 3610 |
| 3.294960+6 | 0.000000+0 | 3.386421+6 | 4.46075-21 | 3.500000+6 | 1.00000-201725 | 3611 |
| 3.294960+6 | 3.40702-21 | 3.386421+6 | 4.46075-21 | 3.500000+6 | 1.00000-201725 | 3611 |
| 3.364810+6 | 0.000000+0 | 3.500000+6 | 1.00000-20 | 3.504738+6 | 1.03355-201725 | 3612 |
| 3.364810+6 | 1.59825-21 | 3.500000+6 | 1.00000-20 | 3.504738+6 | 1.03355-201725 | 3612 |
| 3.386420+6 | 0.000000+0 | 3.504738+6 | 1.04000-20 | 3.510911+6 | 1.08711-201725 | 3613 |
| 3.386420+6 | 1.00000-20 | 3.504738+6 | 1.04000-20 | 3.510911+6 | 1.08711-201725 | 3613 |
| 3.504740+6 | 0.000000+0 | 3.592190+6 | 3.56566-21 | 3.667295+6 | 6.62789-211725 | 3614 |
| 3.504740+6 | 2.51690-22 | 3.592190+6 | 3.56566-21 | 3.667295+6 | 6.62789-211725 | 3614 |
| 3.510910+6 | 0.000000+0 | 3.667295+6 | 6.54083-21 | 3.677481+6 | 6.96686-211725 | 3615 |
| 3.510910+6 | 3.39953-21 | 3.667295+6 | 6.54083-21 | 3.677481+6 | 6.96686-211725 | 3615 |
| 3.592190+6 | 0.000000+0 | 3.677481+6 | 5.40466-21 | 3.750000+6 | 1.00000-201725 | 3616 |
| 3.592190+6 | 4.75920-21 | 3.677481+6 | 5.40466-21 | 3.750000+6 | 1.00000-201725 | 3616 |
| 3.667300+6 | 0.000000+0 | 3.750000+6 | 1.00000-20 | 3.792814+6 | 1.34818-201725 | 3617 |
| 3.667300+6 | 1.23161-21 | 3.750000+6 | 1.00000-20 | 3.792814+6 | 1.34818-201725 | 3617 |
| 3.677480+6 | 0.000000+0 | 3.792814+6 | 1.39903-20 | 3.975949+6 | 1.00797-201725 | 3618 |
| 3.677480+6 | 1.00000-20 | 3.792814+6 | 1.39903-20 | 3.975949+6 | 1.00797-201725 | 3618 |
| 3.792810+6 | 0.000000+0 | 4.000000+6 | 1.00000-20 | 4.031507+6 | 1.05071-201725 | 3619 |
| 3.792810+6 | 8.83916-21 | 4.000000+6 | 1.00000-20 | 4.031507+6 | 1.05071-201725 | 3619 |
| 3.975950+6 | 0.000000+0 | 4.031507+6 | 1.64108-20 | 4.031508+6 | 1.64110-201725 | 3620 |
| 3.975950+6 | 1.00000-20 | 4.031507+6 | 1.64108-20 | 4.031508+6 | 1.64110-201725 | 3620 |
| 4.074720+6 | 0.000000+0 | 4.081942+6 | 4.12088-22 | 4.116900+6 | 2.40652-211725 | 3621 |
| 4.074720+6 | 4.12031-22 | 4.081942+6 | 4.12088-22 | 4.116900+6 | 2.40652-211725 | 3621 |
| 4.116900+6 | 0.000000+0 | 4.176287+6 | 4.46179-21 | 4.231947+6 | 8.64364-211725 | 3622 |
| 4.116900+6 | 4.46172-21 | 4.176287+6 | 4.46179-21 | 4.231947+6 | 8.64364-211725 | 3622 |
| 4.345300+6 | 0.000000+0 | 4.473086+6 | 8.26020-21 | 4.473108+6 | 8.26162-211725 | 3623 |
| 4.345300+6 | 4.28970-21 | 4.473086+6 | 8.26020-21 | 4.473108+6 | 8.26162-211725 | 3623 |
| 4.411660+6 | 0.000000+0 | 4.473108+6 | 6.95571-21 | 4.473109+6 | 6.95582-211725 | 3624 |
| 4.411660+6 | 6.95322-21 | 4.473108+6 | 6.95571-21 | 4.473109+6 | 6.95582-211725 | 3624 |
| 4.473108+6 | 0.000000+0 | 4.473109+6 | 8.17449-24 | 4.500000+6 | 1.00000-201725 | 3625 |
| 4.473108+6 | 7.80292-24 | 4.473109+6 | 8.17449-24 | 4.500000+6 | 1.00000-201725 | 3625 |
| 4.500660+6 | 0.000000+0 | 4.641611+6 | 5.65298-21 | 4.750000+6 | 1.00000-201725 | 3626 |
| 4.500660+6 | 2.80588-21 | 4.641611+6 | 5.65298-21 | 4.750000+6 | 1.00000-201725 | 3626 |
| 4.570620+6 | 0.000000+0 | 4.750000+6 | 1.00000-20 | 4.757789+6 | 1.01042-201725 | 3627 |
| 4.570620+6 | 3.95754-21 | 4.750000+6 | 1.00000-20 | 4.757789+6 | 1.01042-201725 | 3627 |
| 4.641610+6 | 0.000000+0 | 4.757789+6 | 1.01671-20 | 4.757790+6 | 1.01671-201725 | 3628 |
| 4.641610+6 | 1.00000-20 | 4.757789+6 | 1.01671-20 | 4.757790+6 | 1.01671-201725 | 3628 |
| 4.265400+6 | 0.000000+0 | 4.293833+6 | 1.21198-21 | 4.298410+6 | 1.40708-211725 | 3650 |
| 4.265400+6 | 1.21194-21 | 4.293833+6 | 1.21198-21 | 4.298410+6 | 1.40708-211725 | 3650 |
| 6.454060+6 | 0.000000+0 | 6.554151+6 | 1.661158-6 | 6.554153+6 | 1.661219-61725 | 3651 |
| 6.454060+6 | 1.00000-20 | 6.554151+6 | 1.661158-6 | 6.554153+6 | 1.661219-61725 | 3651 |
| 7.663880+6 | 0.000000+0 | 7.927969+6 | 7.85699-21 | 8.000000+6 | 1.00000-201725 | 3652 |
| 7.663880+6 | 7.85693-21 | 7.927969+6 | 7.85699-21 | 8.000000+6 | 1.00000-201725 | 3652 |
| 8.292500+6 | 0.000000+0 | 8.498168+6 | 9.91171-21 | 8.500000+6 | 1.00000-201725 | 3653 |
| 8.292500+6 | 7.92345-21 | 8.498168+6 | 9.91171-21 | 8.500000+6 | 1.00000-201725 | 3653 |
| 8.456910+6 | 0.000000+0 | 8.500000+6 | 1.00000-20 | 9.000000+6 | 8.224970-91725 | 3654 |
| 8.456910+6 | 9.57482-21 | 8.500000+6 | 1.00000-20 | 9.000000+6 | 8.224970-91725 | 3654 |
| 8.500000+6 | 0.000000+0 | 9.000000+6 | 1.00000-20 | 9.021439+6 | 1.691144-91725 | 3655 |

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|------------|------------|------------|------------|------------|----------------|------|
| 8.500000+6 | 1.00000-20 | 9.000000+6 | 1.00000-20 | 9.021439+6 | 1.691144-91725 | 3655 |
| 9.021440+6 | 0.000000+0 | 9.281839+6 | 5.44131-21 | 9.295729+6 | 5.73156-211725 | 3656 |
| 9.021440+6 | 1.39527-21 | 9.281839+6 | 5.44131-21 | 9.295729+6 | 5.73156-211725 | 3656 |
| 9.088210+6 | 0.000000+0 | 9.295729+6 | 5.03943-21 | 9.500000+6 | 1.00000-201725 | 3657 |
| 9.088210+6 | 4.70212-21 | 9.295729+6 | 5.03943-21 | 9.500000+6 | 1.00000-201725 | 3657 |
| 9.281840+6 | 0.000000+0 | 9.500000+6 | 1.00000-20 | 9.574061+6 | 9.515951-91725 | 3658 |
| 9.281840+6 | 6.36686-22 | 9.500000+6 | 1.00000-20 | 9.574061+6 | 9.515951-91725 | 3658 |
| 9.295730+6 | 0.000000+0 | 9.574061+6 | 5.998988-9 | 9.643170+6 | 1.159686-81725 | 3659 |
| 9.295730+6 | 1.00000-20 | 9.574061+6 | 5.998988-9 | 9.643170+6 | 1.159686-81725 | 3659 |
| 9.643170+6 | 0.000000+0 | 9.802641+6 | 4.46910-21 | 1.000000+7 | 1.00000-201725 | 3660 |
| 9.643170+6 | 2.62380-21 | 9.802641+6 | 4.46910-21 | 1.000000+7 | 1.00000-201725 | 3660 |
| 9.736800+6 | 0.000000+0 | 1.000000+7 | 1.00000-20 | 1.010924+7 | 8.371287-91725 | 3661 |
| 9.736800+6 | 2.50170-21 | 1.000000+7 | 1.00000-20 | 1.010924+7 | 8.371287-91725 | 3661 |
| 9.802640+6 | 0.000000+0 | 1.010924+7 | 4.132211-9 | 1.011850+7 | 4.792677-91725 | 3662 |
| 9.802640+6 | 1.00000-20 | 1.010924+7 | 4.132211-9 | 1.011850+7 | 4.792677-91725 | 3662 |
| 1.011850+7 | 0.000000+0 | 1.018434+7 | 1.92190-21 | 1.028208+7 | 4.42318-211725 | 3663 |
| 1.011850+7 | 2.36974-22 | 1.018434+7 | 1.92190-21 | 1.028208+7 | 4.42318-211725 | 3663 |
| 1.011850+7 | 0.000000+0 | 1.028208+7 | 4.28781-21 | 1.043126+7 | 8.19817-211725 | 3664 |
| 1.011850+7 | 1.72582-21 | 1.028208+7 | 4.28781-21 | 1.043126+7 | 8.19817-211725 | 3664 |
| 1.018430+7 | 0.000000+0 | 1.043126+7 | 7.82234-21 | 1.043924+7 | 8.07514-211725 | 3665 |
| 1.018430+7 | 3.09637-21 | 1.043126+7 | 7.82234-21 | 1.043924+7 | 8.07514-211725 | 3665 |
| 1.028210+7 | 0.000000+0 | 1.043924+7 | 7.21182-21 | 1.050000+7 | 1.00000-201725 | 3666 |
| 1.028210+7 | 6.84563-21 | 1.043924+7 | 7.21182-21 | 1.050000+7 | 1.00000-201725 | 3666 |
| 1.043924+7 | 0.000000+0 | 1.050000+7 | 1.00000-20 | 1.056193+7 | 3.00686-101725 | 3667 |
| 1.043924+7 | 1.15961-21 | 1.050000+7 | 1.00000-20 | 1.056193+7 | 3.00686-101725 | 3667 |
| 1.061700+7 | 0.000000+0 | 1.069671+7 | 2.08182-21 | 1.079342+7 | 4.60669-211725 | 3669 |
| 1.061700+7 | 2.05493-21 | 1.069671+7 | 2.08182-21 | 1.079342+7 | 4.60669-211725 | 3669 |
| 1.093230+7 | 0.000000+0 | 1.100000+7 | 1.00000-20 | 1.109590+7 | 2.68349-101725 | 3674 |
| 1.093230+7 | 8.05584-21 | 1.100000+7 | 1.00000-20 | 1.109590+7 | 2.68349-101725 | 3674 |
| 1.098680+7 | 0.000000+0 | 1.109590+7 | 1.43718-10 | 1.114117+7 | 2.92924-101725 | 3675 |
| 1.098680+7 | 1.00000-20 | 1.109590+7 | 1.43718-10 | 1.114117+7 | 2.92924-101725 | 3675 |
| 1.114630+7 | 0.000000+0 | 1.120187+7 | 1.57087-21 | 1.120188+7 | 1.57115-211725 | 3678 |
| 1.114630+7 | 1.19257-21 | 1.120187+7 | 1.57087-21 | 1.120188+7 | 1.57115-211725 | 3678 |
| 1.118850+7 | 0.000000+0 | 1.120188+7 | 4.29842-22 | 1.127893+7 | 2.90328-211725 | 3679 |
| 1.118850+7 | 4.29521-22 | 1.120188+7 | 4.29842-22 | 1.127893+7 | 2.90328-211725 | 3679 |
| 9.574060+6 | 0.000000+0 | 9.736795+6 | 3.82058-21 | 9.802641+6 | 5.36649-211725 | 3700 |
| 9.574060+6 | 1.62249-21 | 9.736795+6 | 3.82058-21 | 9.802641+6 | 5.36649-211725 | 3700 |
| 1.159710+7 | 0.000000+0 | 1.200000+7 | 1.00000-20 | 1.250000+7 | 1.034580-61725 | 3702 |
| 1.159710+7 | 8.83997-21 | 1.200000+7 | 1.00000-20 | 1.250000+7 | 1.034580-61725 | 3702 |
| 1.195330+7 | 0.000000+0 | 1.250000+7 | 2.312910-9 | 1.252314+7 | 3.096308-91725 | 3703 |
| 1.195330+7 | 1.00000-20 | 1.250000+7 | 2.312910-9 | 1.252314+7 | 3.096308-91725 | 3703 |
| 1.252130+7 | 0.000000+0 | 1.262829+7 | 2.20505-21 | 1.288684+7 | 7.62698-211725 | 3704 |
| 1.252130+7 | 1.45200-21 | 1.262829+7 | 2.20505-21 | 1.288684+7 | 7.62698-211725 | 3704 |
| 1.259240+7 | 0.000000+0 | 1.288684+7 | 7.22388-21 | 1.300000+7 | 1.00000-201725 | 3705 |
| 1.259240+7 | 8.80968-22 | 1.288684+7 | 7.22388-21 | 1.300000+7 | 1.00000-201725 | 3705 |
| 1.262830+7 | 0.000000+0 | 1.300000+7 | 1.00000-20 | 1.300979+7 | 7.39572-101725 | 3706 |
| 1.262830+7 | 6.95569-21 | 1.300000+7 | 1.00000-20 | 1.300979+7 | 7.39572-101725 | 3706 |
| 1.288680+7 | 0.000000+0 | 1.300979+7 | 8.35392-11 | 1.350000+7 | 4.266560-91725 | 3707 |
| 1.288680+7 | 1.00000-20 | 1.300979+7 | 8.35392-11 | 1.350000+7 | 4.266560-91725 | 3707 |
| 1.351620+7 | 0.000000+0 | 1.373841+7 | 4.59324-21 | 1.374397+7 | 4.70816-211725 | 3708 |

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| 1.351620+7 | 2.19028-21 | 1.373841+7 | 4.59324-21 | 1.374397+7 | 4.70816-211725 | 3708 |
| 1.362220+7 | 0.000000+0 | 1.374397+7 | 3.22403-21 | 1.378615+7 | 4.34035-211725 | 3709 |
| 1.362220+7 | 3.07688-21 | 1.374397+7 | 3.22403-21 | 1.378615+7 | 4.34035-211725 | 3709 |
| 1.374397+7 | 0.000000+0 | 1.378615+7 | 1.82499-21 | 1.383728+7 | 3.77958-211725 | 3710 |
| 1.374397+7 | 2.12546-22 | 1.378615+7 | 1.82499-21 | 1.383728+7 | 3.77958-211725 | 3710 |
| 1.374400+7 | 0.000000+0 | 1.383728+7 | 3.64449-21 | 1.390591+7 | 6.32504-211725 | 3711 |
| 1.374400+7 | 1.64746-21 | 1.383728+7 | 3.64449-21 | 1.390591+7 | 6.32504-211725 | 3711 |
| 1.378610+7 | 0.000000+0 | 1.390591+7 | 5.60019-21 | 1.400000+7 | 1.00000-201725 | 3712 |
| 1.378610+7 | 2.39093-21 | 1.390591+7 | 5.60019-21 | 1.400000+7 | 1.00000-201725 | 3712 |
| 1.383730+7 | 0.000000+0 | 1.400000+7 | 1.00000-20 | 1.407515+7 | 1.06164-101725 | 3713 |
| 1.383730+7 | 4.21767-21 | 1.400000+7 | 1.00000-20 | 1.407515+7 | 1.06164-101725 | 3713 |
| 1.390590+7 | 0.000000+0 | 1.407515+7 | 4.65921-11 | 1.412618+7 | 1.22145-101725 | 3714 |
| 1.390590+7 | 1.00000-20 | 1.407515+7 | 4.65921-11 | 1.412618+7 | 1.22145-101725 | 3714 |
| 1.407520+7 | 0.000000+0 | 1.443988+7 | 8.58491-21 | 1.445696+7 | 8.98694-211725 | 3715 |
| 1.407520+7 | 1.20113-21 | 1.443988+7 | 8.58491-21 | 1.445696+7 | 8.98694-211725 | 3715 |
| 1.412620+7 | 0.000000+0 | 1.445696+7 | 8.84864-21 | 1.450000+7 | 1.00000-201725 | 3716 |
| 1.412620+7 | 8.39174-21 | 1.445696+7 | 8.84864-21 | 1.450000+7 | 1.00000-201725 | 3716 |
| 1.443990+7 | 0.000000+0 | 1.450000+7 | 1.00000-20 | 1.458011+7 | 9.81345-111725 | 3717 |
| 1.443990+7 | 2.84098-21 | 1.450000+7 | 1.00000-20 | 1.458011+7 | 9.81345-111725 | 3717 |
| 1.458010+7 | 0.000000+0 | 1.465861+7 | 1.86954-21 | 1.490039+7 | 7.62771-211725 | 3719 |
| 1.458010+7 | 1.30606-21 | 1.465861+7 | 1.86954-21 | 1.490039+7 | 7.62771-211725 | 3719 |
| 1.463490+7 | 0.000000+0 | 1.490039+7 | 7.27133-21 | 1.493331+7 | 8.17313-211725 | 3720 |
| 1.463490+7 | 6.48130-22 | 1.490039+7 | 7.27133-21 | 1.493331+7 | 8.17313-211725 | 3720 |
| 1.465860+7 | 0.000000+0 | 1.493331+7 | 8.04652-21 | 1.499916+7 | 9.97539-211725 | 3721 |
| 1.465860+7 | 7.08222-21 | 1.493331+7 | 8.04652-21 | 1.499916+7 | 9.97539-211725 | 3721 |
| 1.490040+7 | 0.000000+0 | 1.499916+7 | 9.91567-21 | 1.500000+7 | 1.00000-201725 | 3722 |
| 1.490040+7 | 3.30489-21 | 1.499916+7 | 9.91567-21 | 1.500000+7 | 1.00000-201725 | 3722 |
| 1.493330+7 | 0.000000+0 | 1.500000+7 | 1.00000-20 | 1.500842+7 | 3.00967-131725 | 3723 |
| 1.493330+7 | 9.87404-21 | 1.500000+7 | 1.00000-20 | 1.500842+7 | 3.00967-131725 | 3723 |
| 1.500000+7 | 0.000000+0 | 1.500842+7 | 1.06872-19 | 1.506501+7 | 5.94785-191725 | 3724 |
| 1.500000+7 | 1.00000-20 | 1.500842+7 | 1.06872-19 | 1.506501+7 | 5.94785-191725 | 3724 |
| 1.500840+7 | 0.000000+0 | 1.507529+7 | 1.36031-21 | 1.512468+7 | 2.36503-211725 | 3725 |
| 1.500840+7 | 1.15119-21 | 1.507529+7 | 1.36031-21 | 1.512468+7 | 2.36503-211725 | 3725 |
| 1.507530+7 | 0.000000+0 | 1.520709+7 | 3.10329-21 | 1.533250+7 | 6.05613-211725 | 3727 |
| 1.507530+7 | 1.16291-21 | 1.520709+7 | 3.10329-21 | 1.533250+7 | 6.05613-211725 | 3727 |
| 1.512470+7 | 0.000000+0 | 1.533250+7 | 5.53714-21 | 1.533251+7 | 5.53741-211725 | 3728 |
| 1.512470+7 | 2.19573-21 | 1.533250+7 | 5.53714-21 | 1.533251+7 | 5.53741-211725 | 3728 |
| 1.520710+7 | 0.000000+0 | 1.533251+7 | 4.28186-21 | 1.550000+7 | 1.00000-201725 | 3729 |
| 1.520710+7 | 4.28152-21 | 1.533251+7 | 4.28186-21 | 1.550000+7 | 1.00000-201725 | 3729 |
| 9.382300+5 | 9.382300+5 | 0 | 0 | 1 | 24871725 | 3800 |
| 9.382300+5 | 9.382300+5 | 0 | 0 | 1 | 86191725 | 3800 |
| 9.382300+5 | 8.601300+5 | 0 | 0 | 1 | 8761725 | 3801 |
| 9.382300+5 | 8.601300+5 | 0 | 0 | 1 | 86191725 | 3801 |
| 9.382300+5 | 4.252300+5 | 0 | 0 | 1 | 3091725 | 3802 |
| 9.382300+5 | 4.252300+5 | 0 | 0 | 1 | 86191725 | 3802 |
| 9.382300+5 | -2.114700+5 | 0 | 0 | 1 | 6311725 | 3803 |
| 9.382300+5 | -2.114700+5 | 0 | 0 | 1 | 52241725 | 3803 |
| 9.382300+5 | -3.849700+5 | 0 | 0 | 1 | 8781725 | 3804 |
| 9.382300+5 | -3.849700+5 | 0 | 0 | 1 | 38901725 | 3804 |
| 9.382300+5 | -8.162700+5 | 0 | 0 | 1 | 8291725 | 3805 |

| | | | | | | |
|------------|-------------|------------|------------|------------|----------------|------|
| 9.382300+5 | -8.162700+5 | 0 | 0 | 1 | 14051725 | 3805 |
| ----- | | | | | | |
| 1.275330+6 | 0.000000+0 | 1.317611+6 | 1.88210-21 | 1.328825+6 | 2.38122-211725 | 3806 |
| 1.275330+6 | 1.09824-21 | 1.317611+6 | 1.88210-21 | 1.328825+6 | 2.38122-211725 | 3806 |
| ----- | | | | | | |
| 1.317610+6 | 0.000000+0 | 1.400000+6 | 4.51721-21 | 1.415360+6 | 5.35937-211725 | 3807 |
| 1.317610+6 | 6.14840-22 | 1.400000+6 | 4.51721-21 | 1.415360+6 | 5.35937-211725 | 3807 |
| ----- | | | | | | |
| 1.328820+6 | 0.000000+0 | 1.415360+6 | 5.05532-21 | 1.500000+6 | 1.00000-201725 | 3808 |
| 1.328820+6 | 4.15799-21 | 1.415360+6 | 5.05532-21 | 1.500000+6 | 1.00000-201725 | 3808 |
| ----- | | | | | | |
| 1.769170+6 | 0.000000+0 | 1.814007+6 | 1.94240-21 | 1.814008+6 | 1.94245-211725 | 3809 |
| 1.769170+6 | 5.53053-22 | 1.814007+6 | 1.94240-21 | 1.814008+6 | 1.94245-211725 | 3809 |
| ----- | | | | | | |
| 1.858580+6 | 0.000000+0 | 2.126180+6 | 1.00000-20 | 2.162610+6 | 1.00000-201725 | 3810 |
| 1.858580+6 | 1.00000-20 | 2.126180+6 | 1.00000-20 | 2.162610+6 | 1.00000-201725 | 3810 |
| ----- | | | | | | |
| 2.126180+6 | 0.000000+0 | 2.250000+6 | 1.00000-20 | 2.274950+6 | 1.00000-201725 | 3811 |
| 2.126180+6 | 2.94212-21 | 2.250000+6 | 1.00000-20 | 2.274950+6 | 1.00000-201725 | 3811 |
| ----- | | | | | | |
| 2.274950+6 | 0.000000+0 | 2.392856+6 | 5.23910-21 | 2.452838+6 | 7.90438-211725 | 3812 |
| 2.274950+6 | 5.14352-21 | 2.392856+6 | 5.23910-21 | 2.452838+6 | 7.90438-211725 | 3812 |
| ----- | | | | | | |
| 2.392860+6 | 0.000000+0 | 2.500000+6 | 1.00000-20 | 2.577019+6 | 1.00000-201725 | 3813 |
| 2.392860+6 | 5.59826-21 | 2.500000+6 | 1.00000-20 | 2.577019+6 | 1.00000-201725 | 3813 |
| ----- | | | | | | |
| 2.452840+6 | 0.000000+0 | 2.577019+6 | 1.00000-20 | 2.579077+6 | 1.00000-201725 | 3814 |
| 2.452840+6 | 1.00000-20 | 2.577019+6 | 1.00000-20 | 2.579077+6 | 1.00000-201725 | 3814 |
| ----- | | | | | | |
| 2.579077+6 | 0.000000+0 | 2.721911+6 | 8.37618-21 | 2.721912+6 | 8.37624-211725 | 3815 |
| 2.579077+6 | 1.18973-22 | 2.721911+6 | 8.37618-21 | 2.721912+6 | 8.37624-211725 | 3815 |
| ----- | | | | | | |
| 2.579080+6 | 0.000000+0 | 2.721912+6 | 8.35668-21 | 2.750000+6 | 1.00000-201725 | 3816 |
| 2.579080+6 | 8.35662-21 | 2.721912+6 | 8.35668-21 | 2.750000+6 | 1.00000-201725 | 3816 |
| ----- | | | | | | |
| 2.941130+6 | 0.000000+0 | 3.026624+6 | 1.00000-20 | 3.030235+6 | 1.00000-201725 | 3817 |
| 2.941130+6 | 1.00000-20 | 3.026624+6 | 1.00000-20 | 3.030235+6 | 1.00000-201725 | 3817 |
| ----- | | | | | | |
| 3.026620+6 | 0.000000+0 | 3.067479+6 | 1.82895-21 | 3.089353+6 | 2.80821-211725 | 3818 |
| 3.026620+6 | 1.61612-22 | 3.067479+6 | 1.82895-21 | 3.089353+6 | 2.80821-211725 | 3818 |
| ----- | | | | | | |
| 3.139280+6 | 0.000000+0 | 3.157391+6 | 1.63552-21 | 3.157392+6 | 1.63561-211725 | 3819 |
| 3.139280+6 | 7.62797-22 | 3.157391+6 | 1.63552-21 | 3.157392+6 | 1.63561-211725 | 3819 |
| ----- | | | | | | |
| 17-Cl-37 | | | | | | |
| ***** | | | | | | |
| 1.703700+4 | 1.000000+0 | 0 | 1 | 1 | 01731 | 2151 |
| 1.703700+4 | 1.000000+0 | 0 | 0 | 1 | 01731 | 2151 |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 2121731 | 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 125841731 | 3 1 |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1811731 | 3 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 125561731 | 3 2 |
| ----- | | | | | | |
| 1.285228+7 | 1.096897-3 | 1.300000+7 | 1.021640-3 | 1.308003+7 | 9.934485-41731 | 3 66 |
| 1.285228+7 | 1.096897-3 | 1.300000+7 | 1.021640-3 | 1.308003+7 | 9.934486-41731 | 3 66 |
| ----- | | | | | | |
| 6.107830+6 | 6.107830+6 | 0 | 0 | 2 | 1841731 | 3102 |
| 6.107830+6 | 6.107830+6 | 0 | 0 | 1 | 125561731 | 3102 |
| ----- | | | | | | |
| 1.357498+7 | 9.766011-4 | 1.371859+7 | 1.105391-3 | 1.375578+7 | 1.138743-31731 | 3652 |
| 1.357498+7 | 9.766012-4 | 1.371859+7 | 1.105391-3 | 1.375578+7 | 1.138743-31731 | 3652 |
| ----- | | | | | | |
| 18-Ar-36 | | | | | | |
| ***** | | | | | | |
| 18-Ar-38 | | | | | | |
| ***** | | | | | | |
| 18-Ar-40 | | | | | | |
| ***** | | | | | | |
| 1.700000+7 | 2.082740-6 | 1.800000+7 | 9.694151-7 | 1.900000+7 | 4.672320-71837 | 3 72 |
| 1.700000+7 | 2.082740-6 | 1.800000+7 | 9.694150-7 | 1.900000+7 | 4.672320-71837 | 3 72 |
| ----- | | | | | | |
| 5.002670-3 | 9.847870-4 | 1.103430-4 | 1.318250-5 | 9.725391-7 | 2.816520-81837 | 4 2 |
| 5.002670-3 | 9.847870-4 | 1.103430-4 | 1.318250-5 | 9.725390-7 | 2.816520-81837 | 4 2 |

```

-----
0.000000+0-9.588121-7 0.000000+0-1.087560-8 1837 4 72
0.000000+0-9.588120-7 0.000000+0-1.087560-8 1837 4 72
-----
19-K -39
*****
1.903900+4 1.000000+0 0 1 1 01925 2151
1.903900+4 1.000000+0 0 0 1 01925 2151
-----
0.000000+0 0.000000+0 0 0 2 581925 3 1
0.000000+0 0.000000+0 0 0 1 581925 3 1
-----
13 2 58 5 1925 3 2
4 2 58 5 1925 3 2
-----
3 5 34 2 1925 3102
4 2 34 5 1925 3102
-----
9.970699-7 3.162270-5 1.661970-6 1.022760-7 1925 4 2
9.970700-7 3.162270-5 1.661970-6 1.022760-7 1925 4 2
-----
19-K -40
*****
19-K -41
*****
1.904100+4 1.000000+0 0 1 1 01931 2151
1.904100+4 1.000000+0 0 0 1 01931 2151
-----
0.000000+0 0.000000+0 0 0 3 501931 3 1
0.000000+0 0.000000+0 0 0 2 501931 3 1
-----
1.000000-5 1.00000-20 2.530000-2 1.00000-20 1.250000+5 1.00000-20 1931 3 2
1.000000-5 0.000000+0 2.530000-2 0.000000+0 1.250000+5 0.000000+0 1931 3 2
-----
7.534990+6 7.534990+6 0 0 3 281931 3102
7.534990+6 7.534990+6 0 0 2 281931 3102
-----
20-Ca-40
*****
20-Ca-42
*****
20-Ca-43
*****
20-Ca-44
*****
20-Ca-46
*****
20-Ca-48
*****
21-Sc-45
*****
0.000000+0 4.456790+1 1 1 0 02125 4 16
0.000000+0 4.456790+1 1 2 0 02125 4 16
-----
0.000000+0 4.456790+1 1 1 0 02125 4 22
0.000000+0 4.456790+1 1 2 0 02125 4 22
-----
0.000000+0 0.000000+0 1 1 0 02125 4 28
0.000000+0 0.000000+0 1 2 0 02125 4 28
-----
0.000000+0 4.456790+1 1 1 0 02125 4 91
0.000000+0 4.456790+1 1 2 0 02125 4 91
-----
22-Ti-46
*****
1.000000-5 3.632800+5 1 2 0 02225 2151
1.000000-5 3.000000+5 1 2 0 02225 2151
-----
0.000000+0 0.000000+0 0 0 1 902225 3 1
0.000000+0 0.000000+0 0 0 2 942225 3 1
-----
0.000000+0 0.000000+0 0 0 1 902225 3 2
0.000000+0 0.000000+0 0 0 2 942225 3 2
-----
-1.319680+7 -1.319680+7 0 0 1 82225 3 16

```

| | | | | |
|--|---|---|---|-------------------------|
| -1.319680+7-1.319680+7 | 0 | 0 | 1 | 152225 3 16 |
| -8.012630+6-8.012630+6 | 0 | 0 | 1 | 122225 3 22 |
| -8.012630+6-8.012630+6 | 0 | 0 | 1 | 132225 3 22 |
| 1.057910+7 0.000000+0 1.100000+7 3.176939-7 1.200000+7 1.775608-22225 3 28 | | | | |
| 1.057910+7 0.000000+0 1.100000+7 1.717070-7 1.200000+7 1.032680-22225 3 28 | | | | |
| 8.877400+6 8.877400+6 | 0 | 0 | 2 | 532225 3102 |
| 8.877400+6 8.877400+6 | 0 | 0 | 2 | 482225 3102 |
| -1.584930+6-1.584930+6 | 0 | 0 | 1 | 202225 3103 |
| -1.584930+6-1.584930+6 | 0 | 0 | 1 | 242225 3103 |
| -8.004980+4-8.004980+4 | 0 | 0 | 1 | 212225 3107 |
| -8.004980+4-8.004980+4 | 0 | 0 | 1 | 172225 3107 |
| | | | | 2225 3203 Only in VII.0 |
| | | | | 2225 3207 Only in VII.0 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 342225 4 2 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 322225 4 2 |
| 0.000000+0 0.000000+0 | 1 | 2 | 1 | 82225 6 16 |
| 0.000000+0 0.000000+0 | 1 | 1 | 1 | 92225 6 16 |
| 0.000000+0 0.000000+0 | 1 | 2 | 1 | 132225 6 22 |
| 0.000000+0 0.000000+0 | 1 | 1 | 1 | 132225 6 22 |
| 0.000000+0 0.000000+0 | 1 | 2 | 1 | 112225 6 28 |
| 0.000000+0 0.000000+0 | 1 | 1 | 1 | 122225 6 28 |
| 0.000000+0 0.000000+0 | 1 | 2 | 1 | 202225 6 91 |
| 0.000000+0 0.000000+0 | 1 | 1 | 1 | 192225 6 91 |
| | | | | 2225 6102 Only in VII.1 |
| | | | | 2225 6203 Only in VII.0 |
| | | | | 2225 6207 Only in VII.0 |
| 22-Ti-47 | | | | |
| ***** | | | | |
| 1.000000-5 7.490000+4 | 1 | 2 | 0 | 02228 2151 |
| 1.000000-5 1.000000+5 | 1 | 2 | 0 | 02228 2151 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 1072228 3 1 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 2612228 3 1 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 1072228 3 2 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 2612228 3 2 |
| 9.065750+6 0.000000+0 1.000000+7 4.767451-2 1.100000+7 1.850226-12228 3 16 | | | | |
| 9.065750+6 0.000000+0 1.000000+7 1.768780-2 1.100000+7 7.307480-22228 3 16 | | | | |
| -8.955130+6-8.955130+6 | 0 | 0 | 1 | 112228 3 22 |
| -8.955130+6-8.955130+6 | 0 | 0 | 1 | 122228 3 22 |
| -1.046000+7-1.046000+7 | 0 | 0 | 1 | 112228 3 28 |
| -1.046000+7-1.046000+7 | 0 | 0 | 1 | 192228 3 28 |
| 1.162740+7 1.162740+7 | 0 | 0 | 2 | 592228 3102 |
| 1.162740+7 1.162740+7 | 0 | 0 | 2 | 482228 3102 |
| 1.823000+5 1.823000+5 | 0 | 0 | 1 | 242228 3103 |
| 1.823000+5 1.823000+5 | 0 | 0 | 1 | 2042228 3103 |
| 2.181150+6 2.181150+6 | 0 | 0 | 1 | 242228 3107 |
| 2.181150+6 2.181150+6 | 0 | 0 | 1 | 202228 3107 |
| | | | | 2228 3203 Only in VII.0 |
| | | | | 2228 3207 Only in VII.0 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 342228 4 2 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 322228 4 2 |
| 0.000000+0 0.000000+0 | 1 | 2 | 1 | 122228 6 16 |
| 0.000000+0 0.000000+0 | 1 | 1 | 1 | 132228 6 16 |
| 0.000000+0 0.000000+0 | 1 | 2 | 1 | 122228 6 22 |

| | | | | | | | | |
|-------------|-------------|------------|------------|------------|----------------|------|----|---------------|
| 0.000000+0 | 0.000000+0 | 1 | 1 | 1 | 122228 | 6 | 22 | |
| ----- | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 1 | 2 | 1 | 112228 | 6 | 28 | |
| 0.000000+0 | 0.000000+0 | 1 | 1 | 1 | 122228 | 6 | 28 | |
| ----- | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 1 | 2 | 1 | 232228 | 6 | 91 | |
| 0.000000+0 | 0.000000+0 | 1 | 1 | 1 | 202228 | 6 | 91 | |
| ----- | | | | | | | | |
| | | | | | 2228 | 6102 | | Only in VII.1 |
| | | | | | 2228 | 6203 | | Only in VII.0 |
| | | | | | 2228 | 6207 | | Only in VII.0 |
| ----- | | | | | | | | |
| 22-Ti-48 | | | | | | | | |
| ***** | | | | | | | | |
| 1.000000-5 | 4.000000+5 | 1 | 3 | 0 | 12231 | 2151 | | |
| 1.000000-5 | 3.000000+5 | 1 | 2 | 0 | 02231 | 2151 | | |
| ----- | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 5182231 | 3 | 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 8582231 | 3 | 1 | |
| ----- | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 5182231 | 3 | 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 8582231 | 3 | 2 | |
| ----- | | | | | | | | |
| 1.187260+7 | 0.000000+0 | 1.200000+7 | 5.325255-3 | 1.300000+7 | 1.580709-12231 | 3 | 16 | |
| 1.187260+7 | 0.000000+0 | 1.200000+7 | 2.476760-2 | 1.300000+7 | 2.058710-12231 | 3 | 16 | |
| ----- | | | | | | | | |
| 9.645590+6 | 0.000000+0 | 1.100000+7 | 0.000000+0 | 1.200000+7 | 8.322658-82231 | 3 | 22 | |
| 9.645590+6 | 0.000000+0 | 1.100000+7 | 0.000000+0 | 1.200000+7 | 5.506480-82231 | 3 | 22 | |
| ----- | | | | | | | | |
| -1.144500+7 | -1.144500+7 | 0 | 0 | 1 | 102231 | 3 | 28 | |
| -1.144500+7 | -1.144500+7 | 0 | 0 | 1 | 702231 | 3 | 28 | |
| ----- | | | | | | | | |
| 8.142400+6 | 8.142400+6 | 0 | 0 | 2 | 522231 | 3102 | | |
| 8.142400+6 | 8.142400+6 | 0 | 0 | 2 | 562231 | 3102 | | |
| ----- | | | | | | | | |
| -3.208100+6 | -3.208100+6 | 0 | 0 | 1 | 182231 | 3103 | | |
| -3.208100+6 | -3.208100+6 | 0 | 0 | 1 | 342231 | 3103 | | |
| ----- | | | | | | | | |
| -2.031400+6 | -2.031400+6 | 0 | 0 | 1 | 182231 | 3107 | | |
| -2.031400+6 | -2.031400+6 | 0 | 0 | 1 | 152231 | 3107 | | |
| ----- | | | | | | | | |
| | | | | | 2231 | 3203 | | Only in VII.0 |
| | | | | | 2231 | 3207 | | Only in VII.0 |
| ----- | | | | | | | | |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 2 | |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 2 | |
| ----- | | | | | | | | |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 51 | |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 51 | |
| ----- | | | | | | | | |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 52 | |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 52 | |
| ----- | | | | | | | | |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 53 | |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 53 | |
| ----- | | | | | | | | |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 54 | |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 54 | |
| ----- | | | | | | | | |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 55 | |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 55 | |
| ----- | | | | | | | | |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 56 | |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 56 | |
| ----- | | | | | | | | |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 57 | |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 57 | |
| ----- | | | | | | | | |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 58 | |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 58 | |
| ----- | | | | | | | | |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 59 | |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 59 | |
| ----- | | | | | | | | |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 60 | |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 60 | |
| ----- | | | | | | | | |

| | | | | | | | |
|-------------|-------------|------------|------------|------------|----------------|------|---------------|
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 61 |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 61 |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 62 |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 62 |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 63 |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 63 |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 64 |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 64 |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 65 |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 65 |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 66 |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 66 |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 67 |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 67 |
| 0.000000+0 | 4.753610+1 | 0 | 2 | 0 | 02231 | 4 | 68 |
| 0.000000+0 | 4.755600+1 | 0 | 2 | 0 | 02231 | 4 | 68 |
| 0.000000+0 | 0.000000+0 | 1 | 2 | 1 | 102231 | 6 | 16 |
| 0.000000+0 | 0.000000+0 | 1 | 1 | 1 | 102231 | 6 | 16 |
| 0.000000+0 | 0.000000+0 | 1 | 2 | 1 | 122231 | 6 | 22 |
| 0.000000+0 | 0.000000+0 | 1 | 1 | 1 | 112231 | 6 | 22 |
| 0.000000+0 | 0.000000+0 | 1 | 2 | 1 | 102231 | 6 | 28 |
| 0.000000+0 | 0.000000+0 | 1 | 1 | 1 | 112231 | 6 | 28 |
| 3.933030+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | | 2231 | 6 | 91 |
| 3.933000+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | | 2231 | 6 | 91 |
| | | | | | 2231 | 6102 | Only in VII.1 |
| | | | | | 2231 | 6203 | Only in VII.0 |
| | | | | | 2231 | 6207 | Only in VII.0 |
| 22-Ti-49 | | | | | | | |
| ***** | | | | | | | |
| 1.000000-5 | 2.411000+5 | 1 | 2 | 0 | 02234 | 2151 | |
| 1.000000-5 | 1.800000+5 | 1 | 2 | 0 | 02234 | 2151 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1012234 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1012234 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1012234 | 3 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1012234 | 3 | 2 |
| 8.311200+6 | 0.000000+0 | 9.000000+6 | 2.522955-2 | 1.000000+7 | 1.304847-12234 | 3 | 16 |
| 8.311200+6 | 0.000000+0 | 9.000000+6 | 3.723230-2 | 1.000000+7 | 1.794180-12234 | 3 | 16 |
| -1.017590+7 | -1.017590+7 | 0 | 0 | 1 | 102234 | 3 | 22 |
| -1.017590+7 | -1.017590+7 | 0 | 0 | 1 | 112234 | 3 | 22 |
| 1.158540+7 | 0.000000+0 | 1.200000+7 | 0.000000+0 | 1.300000+7 | 1.299876-52234 | 3 | 28 |
| 1.158540+7 | 0.000000+0 | 1.200000+7 | 3.06662-10 | 1.300000+7 | 2.153490-52234 | 3 | 28 |
| 1.093940+7 | 1.093940+7 | 0 | 0 | 2 | 562234 | 3102 | |
| 1.093940+7 | 1.093940+7 | 0 | 0 | 2 | 532234 | 3102 | |
| -1.222830+6 | -1.222830+6 | 0 | 0 | 1 | 202234 | 3103 | |
| -1.222830+6 | -1.222830+6 | 0 | 0 | 1 | 242234 | 3103 | |
| 2.274500+5 | 2.274500+5 | 0 | 0 | 1 | 212234 | 3107 | |
| 2.274500+5 | 2.274500+5 | 0 | 0 | 1 | 182234 | 3107 | |
| | | | | | 2234 | 3203 | Only in VII.0 |
| | | | | | 2234 | 3207 | Only in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 342234 | 4 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 322234 | 4 | 2 |
| 0.000000+0 | 0.000000+0 | 1 | 2 | 1 | 132234 | 6 | 16 |
| 0.000000+0 | 0.000000+0 | 1 | 1 | 1 | 142234 | 6 | 16 |

| | | | | | | | |
|-----------------------------------|-------------|------------|------------|------------|----------------|------|---------------|
| 0.000000+0 | 0.000000+0 | 1 | 2 | 1 | 112234 | 6 | 22 |
| 0.000000+0 | 0.000000+0 | 1 | 1 | 1 | 112234 | 6 | 22 |
| 0.000000+0 | 0.000000+0 | 1 | 2 | 1 | 102234 | 6 | 28 |
| 0.000000+0 | 0.000000+0 | 1 | 1 | 1 | 112234 | 6 | 28 |
| 0.000000+0 | 0.000000+0 | 1 | 2 | 1 | 222234 | 6 | 91 |
| 0.000000+0 | 0.000000+0 | 1 | 1 | 1 | 192234 | 6 | 91 |
| | | | | | | | |
| | | | | | 2234 | 6102 | Only in VII.1 |
| | | | | | 2234 | 6203 | Only in VII.0 |
| | | | | | 2234 | 6207 | Only in VII.0 |
| 22-Ti-50 | | | | | | | |
| ***** | | | | | | | |
| 1.000000-5 | 5.870000+5 | 1 | 2 | 0 | 02237 | 2151 | |
| 1.000000-5 | 3.000000+5 | 1 | 2 | 0 | 02237 | 2151 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 892237 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 842237 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 892237 | 3 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 842237 | 3 | 2 |
| 1.116910+7 | 0.000000+0 | 1.200000+7 | 1.764727-1 | 1.300000+7 | 4.603925-12237 | 3 | 16 |
| 1.116910+7 | 0.000000+0 | 1.200000+7 | 1.955230-1 | 1.300000+7 | 5.547300-12237 | 3 | 16 |
| 1.947700+7 | 0.000000+0 | 2.000000+7 | 3.319470-4 | | 2237 | 3 | 17 |
| 1.947700+7 | 0.000000+0 | 2.000000+7 | 6.717050-4 | | 2237 | 3 | 17 |
| -1.072050+7 | -1.072050+7 | 0 | 0 | 1 | 92237 | 3 | 22 |
| -1.072050+7 | -1.072050+7 | 0 | 0 | 1 | 102237 | 3 | 22 |
| 1.241660+7 | 0.000000+0 | 1.300000+7 | 1.829911-9 | 1.400000+7 | 1.751005-52237 | 3 | 28 |
| 1.241660+7 | 0.000000+0 | 1.300000+7 | 1.782720-8 | 1.400000+7 | 5.651110-52237 | 3 | 28 |
| 6.372390+6 | 6.372390+6 | 0 | 0 | 2 | 492237 | 3102 | |
| 6.372390+6 | 6.372390+6 | 0 | 0 | 2 | 442237 | 3102 | |
| 6.229450+6 | 0.000000+0 | 7.000000+6 | 2.027457-8 | 8.000000+6 | 5.260026-52237 | 3103 | |
| 6.229450+6 | 0.000000+0 | 7.000000+6 | 1.791940-8 | 8.000000+6 | 3.483430-52237 | 3103 | |
| 3.513400+6 | 0.000000+0 | 5.000000+6 | 9.379901-9 | 6.000000+6 | 1.919951-82237 | 3107 | |
| 3.513400+6 | 0.000000+0 | 5.000000+6 | 0.000000+0 | 6.000000+6 | 1.018160-92237 | 3107 | |
| | | | | | | | |
| | | | | | 2237 | 3203 | Only in VII.0 |
| | | | | | 2237 | 3207 | Only in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 342237 | 4 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 322237 | 4 | 2 |
| 0.000000+0 | 0.000000+0 | 1 | 2 | 1 | 102237 | 6 | 16 |
| 0.000000+0 | 0.000000+0 | 1 | 1 | 1 | 112237 | 6 | 16 |
| 0.000000+0 | 0.000000+0 | 1 | 2 | 1 | 22237 | 6 | 17 |
| 0.000000+0 | 0.000000+0 | 1 | 1 | 1 | 32237 | 6 | 17 |
| 0.000000+0 | 0.000000+0 | 1 | 2 | 1 | 112237 | 6 | 22 |
| 0.000000+0 | 0.000000+0 | 1 | 1 | 1 | 102237 | 6 | 22 |
| 0.000000+0 | 0.000000+0 | 1 | 2 | 1 | 92237 | 6 | 28 |
| 0.000000+0 | 0.000000+0 | 1 | 1 | 1 | 102237 | 6 | 28 |
| 0.000000+0 | 0.000000+0 | 1 | 2 | 1 | 182237 | 6 | 91 |
| 0.000000+0 | 0.000000+0 | 1 | 1 | 1 | 182237 | 6 | 91 |
| | | | | | | | |
| | | | | | 2237 | 6102 | Only in VII.1 |
| | | | | | 2237 | 6203 | Only in VII.0 |
| | | | | | 2237 | 6207 | Only in VII.0 |
| 23-V -50 Evaluation Only in VII.1 | | | | | | | |
| ***** | | | | | | | |
| 23-V -51 Evaluation Only in VII.1 | | | | | | | |
| ***** | | | | | | | |
| 24-Cr-50 | | | | | | | |
| ***** | | | | | | | |
| 1.000000-5 | 7.830000+5 | 1 | 3 | 0 | 12425 | 2151 | |

| | | | | | | | | | |
|------------|------------|------------|------------|------------|----------------|------|----|--|--|
| 1.000000-5 | 7.920000+5 | 1 | 3 | 0 | 12425 | 2151 | | | |
| ----- | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 13702425 | 3 | 1 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 23762425 | 3 | 1 | | |
| ----- | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 13702425 | 3 | 2 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 23762425 | 3 | 2 | | |
| ----- | | | | | | | | | |
| 1.326254+7 | 0.000000+0 | 1.368000+7 | 1.730000-3 | 1.378000+7 | 4.210000-32425 | 3 | 16 | | |
| 1.326300+7 | 0.000000+0 | 1.368000+7 | 1.730000-3 | 1.378000+7 | 4.210000-32425 | 3 | 16 | | |
| ----- | | | | | | | | | |
| 8.732870+6 | 0.000000+0 | 1.200000+7 | 3.669300-6 | 1.300000+7 | 9.631700-52425 | 3 | 22 | | |
| 8.732900+6 | 0.000000+0 | 1.200000+7 | 3.669300-6 | 1.300000+7 | 9.631700-52425 | 3 | 22 | | |
| ----- | | | | | | | | | |
| 9.783671+6 | 0.000000+0 | 1.100000+7 | 7.727000-4 | 1.200000+7 | 6.708700-22425 | 3 | 28 | | |
| 9.783700+6 | 0.000000+0 | 1.100000+7 | 7.727000-4 | 1.200000+7 | 6.708700-22425 | 3 | 28 | | |
| ----- | | | | | | | | | |
| 1.918987+6 | 0.000000+0 | 2.000000+6 | 1.467900-2 | 2.250000+6 | 5.297700-22425 | 3 | 52 | | |
| 1.919000+6 | 0.000000+0 | 2.000000+6 | 1.467900-2 | 2.250000+6 | 5.297700-22425 | 3 | 52 | | |
| ----- | | | | | | | | | |
| 2.984071+6 | 0.000000+0 | 3.000000+6 | 7.559700-2 | 3.500000+6 | 1.753400-12425 | 3 | 53 | | |
| 2.984100+6 | 0.000000+0 | 3.000000+6 | 7.559700-2 | 3.500000+6 | 1.753400-12425 | 3 | 53 | | |
| ----- | | | | | | | | | |
| 3.227897+6 | 0.000000+0 | 3.500000+6 | 9.140000-4 | 4.000000+6 | 6.573400-32425 | 3 | 55 | | |
| 3.227900+6 | 0.000000+0 | 3.500000+6 | 9.140000-4 | 4.000000+6 | 6.573400-32425 | 3 | 55 | | |
| ----- | | | | | | | | | |
| 1.000000-5 | 0.000000+0 | 7.830000+5 | 0.000000+0 | 7.830000+5 | 2.638544-32425 | 3102 | | | |
| 1.000000-5 | 0.000000+0 | 3.250000+5 | 0.000000+0 | 3.250000+5 | 4.600000-32425 | 3102 | | | |
| ----- | | | | | | | | | |
| 2.614760+5 | 0.000000+0 | 1.000000+6 | 3.717400-8 | 1.250000+6 | 2.449900-62425 | 3103 | | | |
| 2.614800+5 | 0.000000+0 | 1.000000+6 | 3.717400-8 | 1.250000+6 | 2.449900-62425 | 3103 | | | |
| ----- | | | | | | | | | |
| 1.326254+7 | 2.000000+0 | 2.000000+7 | 2.000000+0 | 1.500000+8 | 2.000000+02425 | 6 | 16 | | |
| 1.326300+7 | 2.000000+0 | 2.000000+7 | 2.000000+0 | 1.500000+8 | 2.000000+02425 | 6 | 16 | | |
| ----- | | | | | | | | | |
| 8.732870+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02425 | 6 | 22 | | |
| 8.732900+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02425 | 6 | 22 | | |
| ----- | | | | | | | | | |
| 9.783671+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02425 | 6 | 28 | | |
| 9.783700+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02425 | 6 | 28 | | |
| ----- | | | | | | | | | |
| 1.918987+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02425 | 6 | 52 | | |
| 1.919000+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02425 | 6 | 52 | | |
| ----- | | | | | | | | | |
| 2.984071+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02425 | 6 | 53 | | |
| 2.984100+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02425 | 6 | 53 | | |
| ----- | | | | | | | | | |
| 3.227897+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02425 | 6 | 55 | | |
| 3.227900+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02425 | 6 | 55 | | |
| ----- | | | | | | | | | |
| 2.614760+5 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02425 | 6103 | | | |
| 2.614800+5 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02425 | 6103 | | | |
| ----- | | | | | | | | | |
| 24-Cr-52 | | | | | | | | | |
| ***** | | | | | | | | | |
| 1.000000-5 | 1.430000+6 | 1 | 3 | 0 | 12431 | 2151 | | | |
| 1.000000-5 | 9.800000+5 | 1 | 3 | 0 | 12431 | 2151 | | | |
| ----- | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 22382431 | 3 | 1 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 45962431 | 3 | 1 | | |
| ----- | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 22382431 | 3 | 2 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 45962431 | 3 | 2 | | |
| ----- | | | | | | | | | |
| 1.227279+7 | 0.000000+0 | 1.275000+7 | 4.000000-2 | 1.300000+7 | 7.900000-22431 | 3 | 16 | | |
| 1.227300+7 | 0.000000+0 | 1.275000+7 | 4.000000-2 | 1.300000+7 | 7.900000-22431 | 3 | 16 | | |
| ----- | | | | | | | | | |
| 2.821754+6 | 0.000000+0 | 3.000000+6 | 3.489500-2 | 3.500000+6 | 8.986300-22431 | 3 | 54 | | |
| 2.821800+6 | 0.000000+0 | 3.000000+6 | 3.489500-2 | 3.500000+6 | 8.986300-22431 | 3 | 54 | | |
| ----- | | | | | | | | | |
| 3.022580+6 | 0.000000+0 | 3.500000+6 | 1.704900-1 | 4.000000+6 | 1.800400-12431 | 3 | 55 | | |
| 3.022600+6 | 0.000000+0 | 3.500000+6 | 1.704900-1 | 4.000000+6 | 1.800400-12431 | 3 | 55 | | |
| ----- | | | | | | | | | |
| 3.174473+6 | 0.000000+0 | 3.500000+6 | 1.739000-3 | 4.000000+6 | 7.636700-32431 | 3 | 56 | | |
| 3.174500+6 | 0.000000+0 | 3.500000+6 | 1.739000-3 | 4.000000+6 | 7.636700-32431 | 3 | 56 | | |

| | | | | | | | |
|------------|------------|------------|------------|------------|----------------|------|----|
| 3.771853+6 | 0.000000+0 | 4.000000+6 | 1.002100-1 | 4.500000+6 | 3.294100-12431 | 3 | 91 |
| 3.771900+6 | 0.000000+0 | 4.000000+6 | 1.002100-1 | 4.500000+6 | 3.294100-12431 | 3 | 91 |
| 7.939230+6 | 7.939230+6 | 0 | 0 | 1 | 192431 | 3102 | |
| 7.939230+6 | 7.939230+6 | 0 | 0 | 1 | 232431 | 3102 | |
| 1.233498+6 | 0.000000+0 | 4.000000+6 | 3.055500-8 | 4.500000+6 | 9.065400-72431 | 3107 | |
| 1.233500+6 | 0.000000+0 | 4.000000+6 | 3.055500-8 | 4.500000+6 | 9.065400-72431 | 3107 | |
| 1.227279+7 | 2.000000+0 | 2.000000+7 | 2.000000+0 | 1.500000+8 | 2.000000+02431 | 6 | 16 |
| 1.227300+7 | 2.000000+0 | 2.000000+7 | 2.000000+0 | 1.500000+8 | 2.000000+02431 | 6 | 16 |
| 2.821754+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02431 | 6 | 54 |
| 2.821800+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02431 | 6 | 54 |
| 3.022580+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02431 | 6 | 55 |
| 3.022600+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02431 | 6 | 55 |
| 3.174473+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02431 | 6 | 56 |
| 3.174500+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02431 | 6 | 56 |
| 3.771853+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02431 | 6 | 91 |
| 3.771900+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02431 | 6 | 91 |
| 1.233498+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02431 | 6107 | |
| 1.233500+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02431 | 6107 | |
| 24-Cr-53 | | | | | | | |
| ***** | | | | | | | |
| 1.000000-5 | 5.640000+5 | 1 | 3 | 0 | 12434 | 2151 | |
| 1.000000-5 | 2.000000+5 | 1 | 3 | 0 | 12434 | 2151 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 21592434 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49842434 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 21592434 | 3 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49842434 | 3 | 2 |
| 5.747457+5 | 0.000000+0 | 8.000000+5 | 1.887400-1 | 9.000000+5 | 2.202000-12434 | 3 | 4 |
| 5.747500+5 | 0.000000+0 | 8.000000+5 | 1.887400-1 | 9.000000+5 | 2.202000-12434 | 3 | 4 |
| 8.091279+6 | 0.000000+0 | 8.500000+6 | 2.209300-2 | 9.000000+6 | 7.986500-22434 | 3 | 16 |
| 8.091300+6 | 0.000000+0 | 8.500000+6 | 2.209300-2 | 9.000000+6 | 7.986500-22434 | 3 | 16 |
| 5.747457+5 | 0.000000+0 | 8.000000+5 | 1.887400-1 | 9.000000+5 | 2.202000-12434 | 3 | 51 |
| 5.747500+5 | 0.000000+0 | 8.000000+5 | 1.887400-1 | 9.000000+5 | 2.202000-12434 | 3 | 51 |
| 1.025167+6 | 0.000000+0 | 1.250000+6 | 3.308700-1 | 1.500000+6 | 3.732200-12434 | 3 | 52 |
| 1.025200+6 | 0.000000+0 | 1.250000+6 | 3.308700-1 | 1.500000+6 | 3.732200-12434 | 3 | 52 |
| 1.314578+6 | 0.000000+0 | 1.500000+6 | 2.245800-1 | 1.750000+6 | 2.452500-12434 | 3 | 53 |
| 1.314600+6 | 0.000000+0 | 1.500000+6 | 2.245800-1 | 1.750000+6 | 2.452500-12434 | 3 | 53 |
| 1.566284+6 | 0.000000+0 | 1.750000+6 | 1.419600-1 | 2.000000+6 | 1.776100-12434 | 3 | 54 |
| 1.566300+6 | 0.000000+0 | 1.750000+6 | 1.419600-1 | 2.000000+6 | 1.776100-12434 | 3 | 54 |
| 2.213383+6 | 0.000000+0 | 2.250000+6 | 5.217400-3 | 2.500000+6 | 1.492300-22434 | 3 | 56 |
| 2.213400+6 | 0.000000+0 | 2.250000+6 | 5.217400-3 | 2.500000+6 | 1.492300-22434 | 3 | 56 |
| 2.720871+6 | 0.000000+0 | 2.750000+6 | 1.508000-2 | 3.000000+6 | 2.672900-22434 | 3 | 61 |
| 2.720900+6 | 0.000000+0 | 2.750000+6 | 1.508000-2 | 3.000000+6 | 2.672900-22434 | 3 | 61 |
| 2.757557+6 | 0.000000+0 | 3.000000+6 | 9.002700-3 | 3.500000+6 | 2.059200-22434 | 3 | 62 |
| 2.757600+6 | 0.000000+0 | 3.000000+6 | 9.002700-3 | 3.500000+6 | 2.059200-22434 | 3 | 62 |
| 2.758576+6 | 0.000000+0 | 3.000000+6 | 4.534000-2 | 3.500000+6 | 5.911100-22434 | 3 | 63 |
| 2.758600+6 | 0.000000+0 | 3.000000+6 | 4.534000-2 | 3.500000+6 | 5.911100-22434 | 3 | 63 |
| 9.719090+6 | 9.719090+6 | 0 | 0 | 1 | 252434 | 3102 | |
| 9.719090+6 | 9.719090+6 | 0 | 0 | 1 | 292434 | 3102 | |
| 2.690299+6 | 0.000000+0 | 3.500000+6 | 1.794900-7 | 4.000000+6 | 2.886900-52434 | 3103 | |
| 2.690300+6 | 0.000000+0 | 3.500000+6 | 1.794900-7 | 4.000000+6 | 2.886900-52434 | 3103 | |

| | | | | | | | | |
|-------------|-------------|------------|------------|------------|------------|----------|------|-----------------|
| 8.091279+6 | 2.000000+0 | 2.000000+7 | 2.000000+0 | 1.500000+8 | 2.000000+0 | 2434 | 6 | 16 |
| 8.091300+6 | 2.000000+0 | 2.000000+7 | 2.000000+0 | 1.500000+8 | 2.000000+0 | 2434 | 6 | 16 |
| ----- | | | | | | | | |
| 5.747457+5 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6 | 51 |
| 5.747500+5 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6 | 51 |
| ----- | | | | | | | | |
| 1.025167+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6 | 52 |
| 1.025200+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6 | 52 |
| ----- | | | | | | | | |
| 1.314578+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6 | 53 |
| 1.314600+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6 | 53 |
| ----- | | | | | | | | |
| 1.566284+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6 | 54 |
| 1.566300+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6 | 54 |
| ----- | | | | | | | | |
| 2.213383+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6 | 56 |
| 2.213400+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6 | 56 |
| ----- | | | | | | | | |
| 2.720871+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6 | 61 |
| 2.720900+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6 | 61 |
| ----- | | | | | | | | |
| 2.757557+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6 | 62 |
| 2.757600+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6 | 62 |
| ----- | | | | | | | | |
| 2.758576+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6 | 63 |
| 2.758600+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6 | 63 |
| ----- | | | | | | | | |
| 2.690299+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6103 | |
| 2.690300+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2434 | 6103 | |
| ----- | | | | | | | | |
| 24-Cr-54 | | | | | | | | |
| ***** | | | | | | | | |
| 1.000000-5 | 8.340000+5 | | 1 | 3 | 0 | 12437 | 2151 | |
| 1.000000-5 | 9.000000+5 | | 1 | 3 | 0 | 12437 | 2151 | |
| ----- | | | | | | | | |
| 0.000000+0 | 0.000000+0 | | 0 | 0 | 1 | 16032437 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | | 0 | 0 | 1 | 26442437 | 3 | 1 |
| ----- | | | | | | | | |
| 0.000000+0 | 0.000000+0 | | 0 | 0 | 1 | 16022437 | 3 | 2 |
| 0.000000+0 | 0.000000+0 | | 0 | 0 | 1 | 26442437 | 3 | 2 |
| ----- | | | | | | | | |
| 2.668994+6 | 0.000000+0 | 2.750000+6 | 1.290400-1 | 3.000000+6 | 1.927700-1 | 2437 | 3 | 53 |
| 2.669000+6 | 0.000000+0 | 2.750000+6 | 1.290400-1 | 3.000000+6 | 1.927700-1 | 2437 | 3 | 53 |
| ----- | | | | | | | | |
| 3.131484+6 | 0.000000+0 | 3.500000+6 | 1.368100-1 | 4.000000+6 | 4.029500-1 | 2437 | 3 | 91 |
| 3.131500+6 | 0.000000+0 | 3.500000+6 | 1.368100-1 | 4.000000+6 | 4.029500-1 | 2437 | 3 | 91 |
| ----- | | | | | | | | |
| 6.246350+6 | 6.246350+6 | | 0 | 0 | 1 | 792437 | 3102 | |
| 6.246350+6 | 6.246350+6 | | 0 | 0 | 1 | 182437 | 3102 | |
| ----- | | | | | | | | |
| 2.668994+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2437 | 6 | 53 |
| 2.669000+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2437 | 6 | 53 |
| ----- | | | | | | | | |
| 3.131484+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2437 | 6 | 91 |
| 3.131500+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+0 | 2437 | 6 | 91 |
| ----- | | | | | | | | |
| 25-Mn-55 | | | | | | | | |
| ***** | | | | | | | | |
| 2.505500+4 | 1.000000+0 | | 0 | 0 | 2 | 02525 | 2151 | |
| 2.505500+4 | 1.000000+0 | | 0 | 0 | 1 | 02525 | 2151 | |
| ----- | | | | | | | | |
| 0.000000+0 | 0.000000+0 | | 0 | 0 | 1 | 2242525 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | | 0 | 0 | 1 | 7322525 | 3 | 1 |
| ----- | | | | | | | | |
| 0.000000+0 | 0.000000+0 | | 0 | 0 | 1 | 842525 | 3 | 2 |
| 0.000000+0 | 0.000000+0 | | 0 | 0 | 1 | 7322525 | 3 | 2 |
| ----- | | | | | | | | |
| 0.000000+0 | -1.259500+5 | | 0 | 0 | 1 | 1212525 | 3 | 4 |
| 0.000000+0 | -1.260000+5 | | 0 | 0 | 1 | 672525 | 3 | 4 |
| ----- | | | | | | | | |
| | | | | | | 2525 | 3 | 3 Only in VII.0 |
| -1.022600+7 | -1.022600+7 | | 0 | 0 | 1 | 382525 | 3 | 16 |
| -1.022700+7 | -1.022700+7 | | 0 | 0 | 1 | 122525 | 3 | 16 |
| ----- | | | | | | | | |
| | | | | | | 2525 | 3 | 5 Only in VII.1 |

| | | | | |
|-----------------------|---|---|---|-------------------------|
| | | | | 2525 3 17 Only in VII.1 |
| | | | | 2525 3 22 Only in VII.0 |
| | | | | 2525 3 28 Only in VII.0 |
| | | | | 2525 3 37 Only in VII.1 |
| 0.000000+0-1.259500+5 | 0 | 0 | 1 | 822525 3 51 |
| 0.000000+0-1.260000+5 | 0 | 0 | 1 | 382525 3 51 |
| 0.000000+0-9.842600+5 | 0 | 0 | 1 | 672525 3 52 |
| 0.000000+0-9.840000+5 | 0 | 0 | 1 | 342525 3 52 |
| 0.000000+0-1.289100+6 | 0 | 0 | 1 | 632525 3 53 |
| 0.000000+0-1.290000+6 | 0 | 0 | 1 | 332525 3 53 |
| 0.000000+0-1.292120+6 | 0 | 0 | 1 | 632525 3 54 |
| 0.000000+0-1.292000+6 | 0 | 0 | 1 | 332525 3 54 |
| 0.000000+0-1.293000+6 | 0 | 0 | 1 | 632525 3 55 |
| 0.000000+0-1.293000+6 | 0 | 0 | 1 | 332525 3 55 |
| 0.000000+0-1.528360+6 | 0 | 0 | 1 | 612525 3 56 |
| 0.000000+0-1.528000+6 | 0 | 0 | 1 | 322525 3 56 |
| 0.000000+0-1.884080+6 | 0 | 0 | 1 | 572525 3 57 |
| 0.000000+0-1.884000+6 | 0 | 0 | 1 | 312525 3 57 |
| 0.000000+0-2.015200+6 | 0 | 0 | 1 | 562525 3 58 |
| 0.000000+0-2.015000+6 | 0 | 0 | 1 | 302525 3 58 |
| 0.000000+0-2.198430+6 | 0 | 0 | 1 | 562525 3 59 |
| 0.000000+0-2.198000+6 | 0 | 0 | 1 | 302525 3 59 |
| 0.000000+0-2.215000+6 | 0 | 0 | 1 | 552525 3 60 |
| 0.000000+0-2.215000+6 | 0 | 0 | 1 | 292525 3 60 |
| 0.000000+0-2.252450+6 | 0 | 0 | 1 | 552525 3 61 |
| 0.000000+0-2.252000+6 | 0 | 0 | 1 | 292525 3 61 |
| 0.000000+0-2.266890+6 | 0 | 0 | 1 | 552525 3 62 |
| 0.000000+0-2.267000+6 | 0 | 0 | 1 | 292525 3 62 |
| 0.000000+0-2.281000+6 | 0 | 0 | 1 | 552525 3 63 |
| 0.000000+0-2.312000+6 | 0 | 0 | 1 | 292525 3 63 |
| 0.000000+0-2.311450+6 | 0 | 0 | 1 | 552525 3 64 |
| 0.000000+0-2.366000+6 | 0 | 0 | 1 | 292525 3 64 |
| 0.000000+0-2.365800+6 | 0 | 0 | 1 | 542525 3 65 |
| 0.000000+0-2.398000+6 | 0 | 0 | 1 | 292525 3 65 |
| 0.000000+0-2.380000+6 | 0 | 0 | 1 | 542525 3 66 |
| 0.000000+0-2.427000+6 | 0 | 0 | 1 | 292525 3 66 |
| 0.000000+0-2.398410+6 | 0 | 0 | 1 | 542525 3 67 |
| 0.000000+0-2.563000+6 | 0 | 0 | 1 | 282525 3 67 |
| 0.000000+0-2.426530+6 | 0 | 0 | 1 | 542525 3 68 |
| 0.000000+0-2.727000+6 | 0 | 0 | 1 | 272525 3 68 |
| 0.000000+0-2.563150+6 | 0 | 0 | 1 | 532525 3 69 |
| 0.000000+0-2.753000+6 | 0 | 0 | 1 | 272525 3 69 |
| 0.000000+0-2.582000+6 | 0 | 0 | 1 | 532525 3 70 |
| 0.000000+0-2.822000+6 | 0 | 0 | 1 | 272525 3 70 |
| 0.000000+0-2.621700+6 | 0 | 0 | 1 | 532525 3 71 |
| 0.000000+0-2.824000+6 | 0 | 0 | 1 | 272525 3 71 |
| 0.000000+0-2.694600+6 | 0 | 0 | 1 | 532525 3 72 |
| 0.000000+0-2.873000+6 | 0 | 0 | 1 | 272525 3 72 |
| 0.000000+0-2.727310+6 | 0 | 0 | 1 | 522525 3 73 |
| 0.000000+0-2.954000+6 | 0 | 0 | 1 | 262525 3 73 |
| 0.000000+0-2.741000+6 | 0 | 0 | 1 | 522525 3 74 |
| 0.000000+0-2.976000+6 | 0 | 0 | 1 | 262525 3 74 |

| | | | | | | |
|-----------------------|---|---|---|--------|---|----|
| 0.000000+0-2.752690+6 | 0 | 0 | 1 | 522525 | 3 | 75 |
| 0.000000+0-2.992000+6 | 0 | 0 | 1 | 262525 | 3 | 75 |
| 0.000000+0-2.822100+6 | 0 | 0 | 1 | 522525 | 3 | 76 |
| 0.000000+0-3.006000+6 | 0 | 0 | 1 | 262525 | 3 | 76 |
| 0.000000+0-2.823650+6 | 0 | 0 | 1 | 522525 | 3 | 77 |
| 0.000000+0-3.036000+6 | 0 | 0 | 1 | 262525 | 3 | 77 |
| 0.000000+0-2.828440+6 | 0 | 0 | 1 | 522525 | 3 | 78 |
| 0.000000+0-3.038000+6 | 0 | 0 | 1 | 262525 | 3 | 78 |
| 0.000000+0-2.873280+6 | 0 | 0 | 1 | 512525 | 3 | 79 |
| 0.000000+0-3.040000+6 | 0 | 0 | 1 | 262525 | 3 | 79 |

2525 3 80 Only in VII.1
2525 3 81 Only in VII.1
2525 3 82 Only in VII.1
2525 3 83 Only in VII.1
2525 3 84 Only in VII.1
2525 3 85 Only in VII.1
2525 3 86 Only in VII.1
2525 3 87 Only in VII.1
2525 3 88 Only in VII.1
2525 3 89 Only in VII.1

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|-----------------------|---|---|---|---------|------|----|
| 0.000000+0-2.916450+6 | 0 | 0 | 1 | 512525 | 3 | 91 |
| 0.000000+0-3.046000+6 | 0 | 0 | 1 | 262525 | 3 | 91 |
| 7.271001+6 7.271001+6 | 0 | 0 | 1 | 1092525 | 3102 | |
| 7.270550+6 7.270550+6 | 0 | 0 | 2 | 1642525 | 3102 | |

2525 3103 Only in VII.0
2525 3104 Only in VII.0
2525 3105 Only in VII.0
2525 3106 Only in VII.0
2525 3107 Only in VII.0
2525 3600 Only in VII.1
2525 3601 Only in VII.1
2525 3602 Only in VII.1
2525 3603 Only in VII.1
2525 3604 Only in VII.1
2525 3605 Only in VII.1
2525 3606 Only in VII.1
2525 3607 Only in VII.1
2525 3608 Only in VII.1
2525 3609 Only in VII.1
2525 3610 Only in VII.1
2525 3611 Only in VII.1
2525 3612 Only in VII.1
2525 3613 Only in VII.1
2525 3614 Only in VII.1
2525 3615 Only in VII.1
2525 3616 Only in VII.1
2525 3617 Only in VII.1
2525 3618 Only in VII.1
2525 3619 Only in VII.1
2525 3620 Only in VII.1
2525 3621 Only in VII.1
2525 3622 Only in VII.1
2525 3623 Only in VII.1
2525 3624 Only in VII.1
2525 3625 Only in VII.1
2525 3626 Only in VII.1
2525 3627 Only in VII.1
2525 3628 Only in VII.1
2525 3629 Only in VII.1
2525 3630 Only in VII.1
2525 3631 Only in VII.1
2525 3632 Only in VII.1
2525 3649 Only in VII.1
2525 3800 Only in VII.1
2525 3801 Only in VII.1
2525 3802 Only in VII.1
2525 3803 Only in VII.1

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|------------|------------|---|---|---|--------|------|------|------|------|-------|-------|
| | | | | | | 2525 | 3804 | Only | in | VII.1 | |
| | | | | | | 2525 | 3805 | Only | in | VII.1 | |
| | | | | | | 2525 | 3806 | Only | in | VII.1 | |
| | | | | | | 2525 | 3807 | Only | in | VII.1 | |
| | | | | | | 2525 | 3808 | Only | in | VII.1 | |
| | | | | | | 2525 | 3809 | Only | in | VII.1 | |
| | | | | | | 2525 | 3810 | Only | in | VII.1 | |
| | | | | | | 2525 | 3811 | Only | in | VII.1 | |
| | | | | | | 2525 | 3812 | Only | in | VII.1 | |
| | | | | | | 2525 | 3813 | Only | in | VII.1 | |
| | | | | | | 2525 | 3814 | Only | in | VII.1 | |
| | | | | | | 2525 | 3815 | Only | in | VII.1 | |
| | | | | | | 2525 | 3816 | Only | in | VII.1 | |
| | | | | | | 2525 | 3817 | Only | in | VII.1 | |
| | | | | | | 2525 | 3818 | Only | in | VII.1 | |
| | | | | | | 2525 | 3819 | Only | in | VII.1 | |
| | | | | | | 2525 | 3820 | Only | in | VII.1 | |
| | | | | | | 2525 | 3821 | Only | in | VII.1 | |
| | | | | | | 2525 | 3822 | Only | in | VII.1 | |
| | | | | | | 2525 | 3823 | Only | in | VII.1 | |
| | | | | | | 2525 | 3824 | Only | in | VII.1 | |
| | | | | | | 2525 | 3825 | Only | in | VII.1 | |
| | | | | | | 2525 | 3826 | Only | in | VII.1 | |
| | | | | | | 2525 | 3827 | Only | in | VII.1 | |
| | | | | | | 2525 | 3828 | Only | in | VII.1 | |
| | | | | | | 2525 | 3829 | Only | in | VII.1 | |
| | | | | | | 2525 | 3830 | Only | in | VII.1 | |
| | | | | | | 2525 | 3831 | Only | in | VII.1 | |
| 0.000000+0 | 5.446610+1 | 0 | 2 | 0 | 582525 | 4 | 2 | | | | |
| 0.000000+0 | 5.446610+1 | 0 | 2 | 0 | 02525 | 4 | 2 | | | | |
| ----- | | | | | | | | | | | |
| | | | | | | 2525 | 4 | 51 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 52 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 53 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 54 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 55 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 56 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 57 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 58 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 59 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 60 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 61 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 62 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 63 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 64 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 65 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 66 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 67 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 68 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 69 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 70 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 71 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 72 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 73 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 74 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 75 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 76 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 77 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 78 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 79 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 80 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 81 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 82 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 83 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 84 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 85 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 86 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 87 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 88 | Only | in | VII.1 |
| | | | | | | 2525 | 4 | 89 | Only | in | VII.1 |
| | | | | | | 2525 | 4600 | Only | in | VII.1 | |
| | | | | | | 2525 | 4601 | Only | in | VII.1 | |
| | | | | | | 2525 | 4602 | Only | in | VII.1 | |
| | | | | | | 2525 | 4603 | Only | in | VII.1 | |
| | | | | | | 2525 | 4604 | Only | in | VII.1 | |

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|------------|------------|------------|------------|------|----------|
| | 2525 | 4605 | Only | in | VII.1 |
| | 2525 | 4606 | Only | in | VII.1 |
| | 2525 | 4607 | Only | in | VII.1 |
| | 2525 | 4608 | Only | in | VII.1 |
| | 2525 | 4609 | Only | in | VII.1 |
| | 2525 | 4610 | Only | in | VII.1 |
| | 2525 | 4611 | Only | in | VII.1 |
| | 2525 | 4612 | Only | in | VII.1 |
| | 2525 | 4613 | Only | in | VII.1 |
| | 2525 | 4614 | Only | in | VII.1 |
| | 2525 | 4615 | Only | in | VII.1 |
| | 2525 | 4616 | Only | in | VII.1 |
| | 2525 | 4617 | Only | in | VII.1 |
| | 2525 | 4618 | Only | in | VII.1 |
| | 2525 | 4619 | Only | in | VII.1 |
| | 2525 | 4620 | Only | in | VII.1 |
| | 2525 | 4621 | Only | in | VII.1 |
| | 2525 | 4622 | Only | in | VII.1 |
| | 2525 | 4623 | Only | in | VII.1 |
| | 2525 | 4624 | Only | in | VII.1 |
| | 2525 | 4625 | Only | in | VII.1 |
| | 2525 | 4626 | Only | in | VII.1 |
| | 2525 | 4627 | Only | in | VII.1 |
| | 2525 | 4628 | Only | in | VII.1 |
| | 2525 | 4629 | Only | in | VII.1 |
| | 2525 | 4630 | Only | in | VII.1 |
| | 2525 | 4631 | Only | in | VII.1 |
| | 2525 | 4632 | Only | in | VII.1 |
| | 2525 | 4800 | Only | in | VII.1 |
| | 2525 | 4801 | Only | in | VII.1 |
| | 2525 | 4802 | Only | in | VII.1 |
| | 2525 | 4803 | Only | in | VII.1 |
| | 2525 | 4804 | Only | in | VII.1 |
| | 2525 | 4805 | Only | in | VII.1 |
| | 2525 | 4806 | Only | in | VII.1 |
| | 2525 | 4807 | Only | in | VII.1 |
| | 2525 | 4808 | Only | in | VII.1 |
| | 2525 | 4809 | Only | in | VII.1 |
| | 2525 | 4810 | Only | in | VII.1 |
| | 2525 | 4811 | Only | in | VII.1 |
| | 2525 | 4812 | Only | in | VII.1 |
| | 2525 | 4813 | Only | in | VII.1 |
| | 2525 | 4814 | Only | in | VII.1 |
| | 2525 | 4815 | Only | in | VII.1 |
| | 2525 | 4816 | Only | in | VII.1 |
| | 2525 | 4817 | Only | in | VII.1 |
| | 2525 | 4818 | Only | in | VII.1 |
| | 2525 | 4819 | Only | in | VII.1 |
| | 2525 | 4820 | Only | in | VII.1 |
| | 2525 | 4821 | Only | in | VII.1 |
| | 2525 | 4822 | Only | in | VII.1 |
| | 2525 | 4823 | Only | in | VII.1 |
| | 2525 | 4824 | Only | in | VII.1 |
| | 2525 | 4825 | Only | in | VII.1 |
| | 2525 | 4826 | Only | in | VII.1 |
| | 2525 | 4827 | Only | in | VII.1 |
| | 2525 | 4828 | Only | in | VII.1 |
| | 2525 | 4829 | Only | in | VII.1 |
| | 2525 | 4830 | Only | in | VII.1 |
| | 2525 | 4831 | Only | in | VII.1 |
| | 2525 | 6 | 5 | Only | in VII.1 |
| 1.041375+7 | 2.000000+0 | 6.000000+7 | 2.000000+0 | | |
| 1.041480+7 | 2.000000+0 | 2.000000+7 | 2.000000+0 | | |
| ----- | | | | | |
| | 2525 | 6 | 17 | Only | in VII.1 |
| | 2525 | 6 | 22 | Only | in VII.0 |
| | 2525 | 6 | 28 | Only | in VII.0 |
| | 2525 | 6 | 37 | Only | in VII.1 |
| | 2525 | 6 | 51 | Only | in VII.0 |
| | 2525 | 6 | 52 | Only | in VII.0 |
| | 2525 | 6 | 53 | Only | in VII.0 |
| | 2525 | 6 | 54 | Only | in VII.0 |
| | 2525 | 6 | 55 | Only | in VII.0 |
| | 2525 | 6 | 56 | Only | in VII.0 |
| | 2525 | 6 | 57 | Only | in VII.0 |

[illegible]

| | | | | | | |
|------------|------------|------------|------------|------------|----------------|---------------|
| 0.000000+0 | 1.000000-5 | 0 | 0 | 2 | 2825 3112 | Only in VII.1 |
| 0.000000+0 | 1.000000-5 | 0 | 0 | 1 | 02825 4 | 2 |
| 1.000000-5 | 0.000000+0 | 2.000000+7 | 0.000000+0 | 2.000001+7 | 1.022532-12825 | 6 5 |
| 1.000000-5 | 0.000000+0 | 2.000000+7 | 0.000000+0 | 2.000001+7 | 9.758364-22825 | 6 5 |
| ----- | | | | | | |
| 28-Ni-59 | | | | | | |
| ***** | | | | | | |
| 28-Ni-60 | | | | | | |
| ***** | | | | | | |
| 1.000000-5 | 8.000000+5 | 1 | 3 | 0 | 12831 | 2151 |
| 1.000000-5 | 4.500000+5 | 1 | 3 | 0 | 12831 | 2151 |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 3 | 10742831 | 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 17282831 | 3 1 |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 10382831 | 3 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 17282831 | 3 2 |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 3 | 2572831 | 3 3 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 2242831 | 3 3 |
| ----- | | | | | | |
| 7.820050+6 | 7.820050+6 | 0 | 0 | 3 | 592831 | 3102 |
| 7.820050+6 | 7.820050+6 | 0 | 0 | 1 | 262831 | 3102 |
| ----- | | | | | | |
| 0.000000+0 | 6.792087-8 | 6.028654+5 | 9.995852-7 | 1.205731+6 | 5.773278-72831 | 6 5 |
| 0.000000+0 | 6.792087-8 | 6.028654+5 | 9.995851-7 | 1.205731+6 | 5.773278-72831 | 6 5 |
| ----- | | | | | | |
| 28-Ni-61 | | | | | | |
| ***** | | | | | | |
| 1.000000-5 | 5.700000+4 | 1 | 2 | 0 | 02834 | 2151 |
| 1.000000-5 | 7.000000+4 | 1 | 3 | 0 | 12834 | 2151 |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 36492834 | 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 27082834 | 3 1 |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 36492834 | 3 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 27082834 | 3 2 |
| ----- | | | | | | |
| 7.949758+6 | 0.000000+0 | 8.000000+6 | 2.804500-4 | 8.500000+6 | 2.665100-22834 | 3 16 |
| 7.949800+6 | 0.000000+0 | 8.000000+6 | 2.804500-4 | 8.500000+6 | 2.665100-22834 | 3 16 |
| ----- | | | | | | |
| 6.668595+5 | 0.000000+0 | 8.000000+5 | 7.857700-2 | 9.000000+5 | 9.850700-22834 | 3 53 |
| 6.668600+5 | 0.000000+0 | 8.000000+5 | 7.857700-2 | 9.000000+5 | 9.850700-22834 | 3 53 |
| ----- | | | | | | |
| 9.240477+5 | 0.000000+0 | 1.000000+6 | 1.228000-1 | 1.250000+6 | 1.701600-12834 | 3 54 |
| 9.240500+5 | 0.000000+0 | 1.000000+6 | 1.228000-1 | 1.250000+6 | 1.701600-12834 | 3 54 |
| ----- | | | | | | |
| 1.479086+6 | 0.000000+0 | 1.500000+6 | 3.028500-3 | 1.750000+6 | 9.293100-22834 | 3 91 |
| 1.479100+6 | 0.000000+0 | 1.500000+6 | 3.028500-3 | 1.750000+6 | 9.293100-22834 | 3 91 |
| ----- | | | | | | |
| 1.059733+7 | 1.059733+7 | 0 | 0 | 1 | 9672834 | 3102 |
| 1.059733+7 | 1.059733+7 | 0 | 0 | 1 | 252834 | 3102 |
| ----- | | | | | | |
| 9.442466+6 | 0.000000+0 | 1.200000+7 | 2.80400-10 | 1.300000+7 | 9.923000-82834 | 3111 |
| 9.442500+6 | 0.000000+0 | 1.200000+7 | 2.80400-10 | 1.300000+7 | 9.923000-82834 | 3111 |
| ----- | | | | | | |
| 7.949758+6 | 2.000000+0 | 2.000000+7 | 2.000000+0 | 1.500000+8 | 2.000000+02834 | 6 16 |
| 7.949800+6 | 2.000000+0 | 2.000000+7 | 2.000000+0 | 1.500000+8 | 2.000000+02834 | 6 16 |
| ----- | | | | | | |
| 6.668595+5 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02834 | 6 53 |
| 6.668600+5 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02834 | 6 53 |
| ----- | | | | | | |
| 9.240477+5 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02834 | 6 54 |
| 9.240500+5 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02834 | 6 54 |
| ----- | | | | | | |
| 1.479086+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02834 | 6 91 |
| 1.479100+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02834 | 6 91 |
| ----- | | | | | | |
| 28-Ni-62 | | | | | | |
| ***** | | | | | | |
| 2.806200+4 | 1.000000+0 | 0 | 0 | 2 | 02837 | 2151 |
| 2.806200+4 | 1.000000+0 | 0 | 0 | 1 | 02837 | 2151 |
| ----- | | | | | | |

| | | | | | | | |
|-----------------------------------|------------|------------|------------|------------|----------------|------|----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 17092837 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 26782837 | 3 | 1 |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 17092837 | 3 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 26722837 | 3 | 2 |
| ----- | | | | | | | |
| 1.077062+7 | 0.000000+0 | 1.100000+7 | 1.768800-2 | 1.200000+7 | 2.885200-12837 | 3 | 16 |
| 1.077100+7 | 0.000000+0 | 1.100000+7 | 1.768800-2 | 1.200000+7 | 2.885200-12837 | 3 | 16 |
| ----- | | | | | | | |
| 2.082374+6 | 0.000000+0 | 2.250000+6 | 5.961000-2 | 2.500000+6 | 8.846500-22837 | 3 | 52 |
| 2.082400+6 | 0.000000+0 | 2.250000+6 | 5.961000-2 | 2.500000+6 | 8.846500-22837 | 3 | 52 |
| ----- | | | | | | | |
| 2.339494+6 | 0.000000+0 | 2.500000+6 | 1.573900-1 | 2.750000+6 | 2.293500-12837 | 3 | 53 |
| 2.339500+6 | 0.000000+0 | 2.500000+6 | 1.573900-1 | 2.750000+6 | 2.293500-12837 | 3 | 53 |
| ----- | | | | | | | |
| 2.938088+6 | 0.000000+0 | 3.000000+6 | 1.328700-2 | 3.500000+6 | 2.940900-12837 | 3 | 91 |
| 2.938100+6 | 0.000000+0 | 3.000000+6 | 1.328700-2 | 3.500000+6 | 2.940900-12837 | 3 | 91 |
| ----- | | | | | | | |
| 6.837910+6 | 6.837910+6 | 0 | 0 | 1 | 202837 | 3102 | |
| 6.837910+6 | 6.837910+6 | 0 | 0 | 1 | 312837 | 3102 | |
| ----- | | | | | | | |
| 1.077062+7 | 2.000000+0 | 2.000000+7 | 2.000000+0 | 1.500000+8 | 2.000000+02837 | 6 | 16 |
| 1.077100+7 | 2.000000+0 | 2.000000+7 | 2.000000+0 | 1.500000+8 | 2.000000+02837 | 6 | 16 |
| ----- | | | | | | | |
| 2.082374+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02837 | 6 | 52 |
| 2.082400+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02837 | 6 | 52 |
| ----- | | | | | | | |
| 2.339494+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02837 | 6 | 53 |
| 2.339500+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02837 | 6 | 53 |
| ----- | | | | | | | |
| 2.938088+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02837 | 6 | 91 |
| 2.938100+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02837 | 6 | 91 |
| ----- | | | | | | | |
| 28-Ni-64 | | | | | | | |
| ***** | | | | | | | |
| 1.000000-5 | 5.530000+5 | 1 | 2 | 0 | 02843 | 2151 | |
| 1.000000-5 | 6.000000+5 | 1 | 3 | 0 | 12843 | 2151 | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 36862843 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 26722843 | 3 | 1 |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 36862843 | 3 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 26692843 | 3 | 2 |
| ----- | | | | | | | |
| 9.809369+6 | 0.000000+0 | 1.000000+7 | 1.378500-2 | 1.100000+7 | 3.419200-12843 | 3 | 16 |
| 9.809400+6 | 0.000000+0 | 1.000000+7 | 1.378500-2 | 1.100000+7 | 3.419200-12843 | 3 | 16 |
| ----- | | | | | | | |
| 1.273379+7 | 0.000000+0 | 1.450000+7 | 1.634200-7 | 1.600000+7 | 1.041900-42843 | 3 | 28 |
| 1.273400+7 | 0.000000+0 | 1.450000+7 | 1.634200-7 | 1.600000+7 | 1.041900-42843 | 3 | 28 |
| ----- | | | | | | | |
| 6.098061+6 | 6.098061+6 | 0 | 0 | 1 | 10432843 | 3102 | |
| 6.098060+6 | 6.098060+6 | 0 | 0 | 1 | 292843 | 3102 | |
| ----- | | | | | | | |
| 9.809369+6 | 2.000000+0 | 2.000000+7 | 2.000000+0 | 1.500000+8 | 2.000000+02843 | 6 | 16 |
| 9.809400+6 | 2.000000+0 | 2.000000+7 | 2.000000+0 | 1.500000+8 | 2.000000+02843 | 6 | 16 |
| ----- | | | | | | | |
| 1.273379+7 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02843 | 6 | 28 |
| 1.273400+7 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 1.500000+8 | 1.000000+02843 | 6 | 28 |
| ----- | | | | | | | |
| 29-Cu-63 | | | | | | | |
| ***** | | | | | | | |
| 9.945868+5 | 9.704225-7 | 1.326116+6 | 4.663644-7 | 1.657645+6 | 5.521164-82925 | 6 | 5 |
| 9.945868+5 | 9.704226-7 | 1.326116+6 | 4.663644-7 | 1.657645+6 | 5.521164-82925 | 6 | 5 |
| ----- | | | | | | | |
| 29-Cu-65 | | | | | | | |
| ***** | | | | | | | |
| 8.500000+7 | 1.585006-7 | 9.000000+7 | 4.848931-7 | 9.500000+7 | 9.802407-72931 | 6 | 5 |
| 8.500000+7 | 1.585006-7 | 9.000000+7 | 4.848931-7 | 9.500000+7 | 9.802406-72931 | 6 | 5 |
| ----- | | | | | | | |
| 30-Zn-64 Evaluation Only in VII.1 | | | | | | | |
| ***** | | | | | | | |
| 30-Zn-65 Evaluation Only in VII.1 | | | | | | | |
| ***** | | | | | | | |
| 30-Zn-66 Evaluation Only in VII.1 | | | | | | | |
| ***** | | | | | | | |

```

30-Zn-67      Evaluation Only in VII.1
*****
30-Zn-68      Evaluation Only in VII.1
*****
30-Zn-70      Evaluation Only in VII.1
*****
31-Ga-69
*****
4.217550+4 6.501760-7 7.499980+4 9.919059-7 1.333700+5 1.343100-63125 5 16
4.217550+4 6.501760-7 7.499980+4 9.919060-7 1.333700+5 1.343100-63125 5 16
-----
31-Ga-71
*****
32-Ge-70
*****
32-Ge-72
*****
32-Ge-73
*****
32-Ge-74
*****
32-Ge-76
*****
33-As-74
*****
4.722000+5 9.637509-7 5.115000+5 8.248400-7 5.509000+5 6.368940-73322 6 24
4.722000+5 9.637510-7 5.115000+5 8.248400-7 5.509000+5 6.368940-73322 6 24
-----
0.000000+0 6.84999-11 2.285300+5 8.106520-7 4.570600+5 9.950149-73322 6 28
0.000000+0 6.84999-11 2.285300+5 8.106520-7 4.570600+5 9.950150-73322 6 28
-----
4.299200+5 8.611010-7 5.22227-15 5.374000+5 9.642559-7-9.98162-163322 6 91
4.299200+5 8.611010-7 5.22227-15 5.374000+5 9.642560-7-9.98162-163322 6 91
-----
3.915100+6 8.177800-7 4.000210+6 8.962840-7 4.085320+6 9.982909-73322 6849
3.915100+6 8.177800-7 4.000210+6 8.962840-7 4.085320+6 9.982910-73322 6849
-----
33-As-75
*****
0.000000+0 0.000000+0 0 0 1 953325 3 1
0.000000+0 0.000000+0 0 0 1 333325 3 1
-----
0.000000+0 0.000000+0 0 0 1 953325 3 2
0.000000+0 0.000000+0 0 0 1 363325 3 2
-----
0.000000+0-1.986060+5 0 0 1 843325 3 4
0.000000+0-6.837941+5 0 0 1 893325 3 4
-----
-1.024325+7-1.024325+7 0 0 1 173325 3 16
-1.024300+7-1.024300+7 0 0 1 113325 3 16
-----
-1.821801+7-1.821801+7 0 0 1 33325 3 17
-1.821800+7-1.821800+7 0 0 1 23325 3 17
-----
-5.319528+6-5.319528+6 0 0 1 223325 3 22
-5.320000+6-5.320000+6 0 0 1 123325 3 22
-----
-6.898432+6-6.898432+6 0 0 1 3325 3 24 Only in VII.0
-6.899000+6-6.899000+6 0 0 1 233325 3 28
143325 3 28
-----
3325 3 41 Only in VII.0
0.000000+0-1.986060+5 0 0 1 543325 3 51
0.000000+0-1.986100+5 0 0 1 1073325 3 51
-----
0.000000+0-2.646580+5 0 0 1 533325 3 52
0.000000+0-2.646600+5 0 0 1 1063325 3 52
-----
0.000000+0-2.795430+5 0 0 1 533325 3 53
0.000000+0-2.795400+5 0 0 1 1053325 3 53
-----
0.000000+0-3.039240+5 0 0 1 523325 3 54
0.000000+0-3.039200+5 0 0 1 1033325 3 54
-----
0.000000+0-4.006580+5 0 0 1 503325 3 55

```

| | | | | | | |
|-----------------------|---|---|---|---------|---|----|
| 0.000000+0-4.006600+5 | 0 | 0 | 1 | 1003325 | 3 | 55 |
| 0.000000+0-4.687500+5 | 0 | 0 | 1 | 493325 | 3 | 56 |
| 0.000000+0-4.686000+5 | 0 | 0 | 1 | 983325 | 3 | 56 |
| 0.000000+0-5.723700+5 | 0 | 0 | 1 | 483325 | 3 | 57 |
| 0.000000+0-5.722200+5 | 0 | 0 | 1 | 953325 | 3 | 57 |
| 0.000000+0-5.850000+5 | 0 | 0 | 1 | 483325 | 3 | 58 |
| 0.000000+0-5.850000+5 | 0 | 0 | 1 | 943325 | 3 | 58 |
| 0.000000+0-6.176900+5 | 0 | 0 | 1 | 473325 | 3 | 59 |
| 0.000000+0-6.177000+5 | 0 | 0 | 1 | 913325 | 3 | 59 |
| 0.000000+0-8.216600+5 | 0 | 0 | 1 | 453325 | 3 | 60 |
| 0.000000+0-8.215600+5 | 0 | 0 | 1 | 853325 | 3 | 60 |
| 0.000000+0-8.598000+5 | 0 | 0 | 1 | 453325 | 3 | 61 |
| 0.000000+0-8.599000+5 | 0 | 0 | 1 | 833325 | 3 | 61 |
| 0.000000+0-8.650000+5 | 0 | 0 | 1 | 453325 | 3 | 62 |
| 0.000000+0-8.648000+5 | 0 | 0 | 1 | 823325 | 3 | 62 |
| 0.000000+0-8.864000+5 | 0 | 0 | 1 | 453325 | 3 | 63 |
| 0.000000+0-8.860000+5 | 0 | 0 | 1 | 813325 | 3 | 63 |
| 0.000000+0-1.043400+6 | 0 | 0 | 1 | 433325 | 3 | 64 |
| 0.000000+0-1.041800+6 | 0 | 0 | 1 | 763325 | 3 | 64 |
| 0.000000+0-1.063300+6 | 0 | 0 | 1 | 433325 | 3 | 65 |
| 0.000000+0-1.064300+6 | 0 | 0 | 1 | 743325 | 3 | 65 |
| 0.000000+0-1.074500+6 | 0 | 0 | 1 | 433325 | 3 | 66 |
| 0.000000+0-1.075600+6 | 0 | 0 | 1 | 723325 | 3 | 66 |
| 0.000000+0-1.080800+6 | 0 | 0 | 1 | 433325 | 3 | 67 |
| 0.000000+0-1.080400+6 | 0 | 0 | 1 | 713325 | 3 | 67 |
| 0.000000+0-1.096300+6 | 0 | 0 | 1 | 423325 | 3 | 68 |
| 0.000000+0-1.095500+6 | 0 | 0 | 1 | 693325 | 3 | 68 |
| 0.000000+0-1.100200+6 | 0 | 0 | 1 | 423325 | 3 | 69 |
| 0.000000+0-1.101000+6 | 0 | 0 | 1 | 683325 | 3 | 69 |
| 0.000000+0-1.126700+6 | 0 | 0 | 1 | 423325 | 3 | 70 |
| 0.000000+0-1.127700+6 | 0 | 0 | 1 | 673325 | 3 | 70 |
| 0.000000+0-1.128900+6 | 0 | 0 | 1 | 423325 | 3 | 71 |
| 0.000000+0-1.128000+6 | 0 | 0 | 1 | 663325 | 3 | 71 |
| 0.000000+0-1.172000+6 | 0 | 0 | 1 | 423325 | 3 | 72 |
| 0.000000+0-1.171600+6 | 0 | 0 | 1 | 643325 | 3 | 72 |
| 0.000000+0-1.203600+6 | 0 | 0 | 1 | 413325 | 3 | 73 |
| 0.000000+0-1.204500+6 | 0 | 0 | 1 | 623325 | 3 | 73 |
| 0.000000+0-1.264000+6 | 0 | 0 | 1 | 413325 | 3 | 74 |
| 0.000000+0-1.263100+6 | 0 | 0 | 1 | 603325 | 3 | 74 |
| 0.000000+0-1.302300+6 | 0 | 0 | 1 | 403325 | 3 | 75 |
| 0.000000+0-1.301200+6 | 0 | 0 | 1 | 563325 | 3 | 75 |
| 0.000000+0-1.309400+6 | 0 | 0 | 1 | 403325 | 3 | 76 |
| 0.000000+0-1.309000+6 | 0 | 0 | 1 | 553325 | 3 | 76 |
| 0.000000+0-1.349300+6 | 0 | 0 | 1 | 403325 | 3 | 77 |
| 0.000000+0-1.349300+6 | 0 | 0 | 1 | 543325 | 3 | 77 |
| 0.000000+0-1.370800+6 | 0 | 0 | 1 | 403325 | 3 | 78 |
| 0.000000+0-1.370000+6 | 0 | 0 | 1 | 533325 | 3 | 78 |
| 0.000000+0-1.420200+6 | 0 | 0 | 1 | 393325 | 3 | 79 |
| 0.000000+0-1.419800+6 | 0 | 0 | 1 | 513325 | 3 | 79 |
| 0.000000+0-1.430500+6 | 0 | 0 | 1 | 393325 | 3 | 80 |

| | | | | | | |
|------------------------|---|---|---|--------|------|---------------|
| 0.000000+0-1.430300+6 | 0 | 0 | 1 | 503325 | 3 80 | |
| 0.000000+0-1.431500+6 | 0 | 0 | 1 | 393325 | 3 91 | |
| 0.000000+0-6.837941+5 | 0 | 0 | 1 | 893325 | 3 91 | |
| 7.329602+6 7.329602+6 | 0 | 0 | 1 | 593325 | 3102 | |
| 7.329000+6 7.329000+6 | 0 | 0 | 1 | 373325 | 3102 | |
| | | | | 3325 | 3103 | Only in VII.1 |
| | | | | 3325 | 3107 | Only in VII.1 |
| -3.931172+5-3.931172+5 | 0 | 0 | 1 | 463325 | 3600 | |
| -3.940000+5-3.940000+5 | 0 | 0 | 1 | 333325 | 3600 | |
| -3.931172+5-4.550072+5 | 0 | 0 | 1 | 453325 | 3601 | |
| -3.940000+5-4.558900+5 | 0 | 0 | 1 | 333325 | 3601 | |
| -3.931172+5-5.328072+5 | 0 | 0 | 1 | 443325 | 3602 | |
| -3.940000+5-5.336900+5 | 0 | 0 | 1 | 333325 | 3602 | |
| -3.931172+5-5.852972+5 | 0 | 0 | 1 | 443325 | 3603 | |
| -3.940000+5-5.862200+5 | 0 | 0 | 1 | 323325 | 3603 | |
| -3.931172+5-5.930072+5 | 0 | 0 | 1 | 443325 | 3604 | |
| -3.940000+5-5.938900+5 | 0 | 0 | 1 | 323325 | 3604 | |
| -3.931172+5-6.462172+5 | 0 | 0 | 1 | 433325 | 3605 | |
| -3.940000+5-6.471000+5 | 0 | 0 | 1 | 323325 | 3605 | |
| -3.931172+5-7.099672+5 | 0 | 0 | 1 | 433325 | 3606 | |
| -3.940000+5-7.107900+5 | 0 | 0 | 1 | 313325 | 3606 | |
| -3.931172+5-8.501672+5 | 0 | 0 | 1 | 413325 | 3607 | |
| -3.940000+5-8.510500+5 | 0 | 0 | 1 | 313325 | 3607 | |
| -3.931172+5-9.678072+5 | 0 | 0 | 1 | 403325 | 3608 | |
| -3.940000+5-9.686700+5 | 0 | 0 | 1 | 313325 | 3608 | |
| -3.931172+5-9.775272+5 | 0 | 0 | 1 | 403325 | 3609 | |
| -3.940000+5-9.784500+5 | 0 | 0 | 1 | 313325 | 3609 | |
| -3.931172+5-1.044117+6 | 0 | 0 | 1 | 393325 | 3610 | |
| -3.940000+5-1.045000+6 | 0 | 0 | 1 | 313325 | 3610 | |
| -3.931172+5-1.066767+6 | 0 | 0 | 1 | 393325 | 3611 | |
| -3.940000+5-1.067670+6 | 0 | 0 | 1 | 313325 | 3611 | |
| -3.931172+5-1.155217+6 | 0 | 0 | 1 | 383325 | 3612 | |
| -3.940000+5-1.156240+6 | 0 | 0 | 1 | 313325 | 3612 | |
| -3.931172+5-1.278577+6 | 0 | 0 | 1 | 373325 | 3613 | |
| -3.940000+5-1.279460+6 | 0 | 0 | 1 | 313325 | 3613 | |
| -3.931172+5-1.294417+6 | 0 | 0 | 1 | 373325 | 3614 | |
| -3.940000+5-1.295300+6 | 0 | 0 | 1 | 313325 | 3614 | |
| -3.931172+5-1.340317+6 | 0 | 0 | 1 | 363325 | 3615 | |
| -3.940000+5-1.381000+6 | 0 | 0 | 1 | 313325 | 3615 | |
| -3.931172+5-1.379917+6 | 0 | 0 | 1 | 363325 | 3616 | |
| -3.940000+5-1.456200+6 | 0 | 0 | 1 | 313325 | 3616 | |
| -3.931172+5-1.455317+6 | 0 | 0 | 1 | 353325 | 3617 | |
| -3.940000+5-1.474600+6 | 0 | 0 | 1 | 313325 | 3617 | |
| -3.931172+5-1.473717+6 | 0 | 0 | 1 | 353325 | 3618 | |
| -3.940000+5-1.521800+6 | 0 | 0 | 1 | 313325 | 3618 | |
| -3.931172+5-1.521117+6 | 0 | 0 | 1 | 343325 | 3619 | |
| -3.940000+5-1.530880+6 | 0 | 0 | 1 | 313325 | 3619 | |
| -3.931172+5-1.530017+6 | 0 | 0 | 1 | 343325 | 3620 | |
| -3.940000+5-1.584000+6 | 0 | 0 | 1 | 313325 | 3620 | |
| -3.931172+5-1.583117+6 | 0 | 0 | 1 | 343325 | 3621 | |
| -3.940000+5-1.634720+6 | 0 | 0 | 1 | 203325 | 3621 | |

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|------------------------|---|---|---|--------|------|------|----|-------|--|
| -3.931172+5-1.616017+6 | 0 | 0 | 1 | 343325 | 3622 | | | | |
| -3.940000+5-1.651000+6 | 0 | 0 | 1 | 203325 | 3622 | | | | |
| -3.931172+5-1.633847+6 | 0 | 0 | 1 | 333325 | 3623 | | | | |
| -3.940000+5-1.729200+6 | 0 | 0 | 1 | 203325 | 3623 | | | | |
| -3.931172+5-1.650117+6 | 0 | 0 | 1 | 333325 | 3624 | | | | |
| -3.940000+5-1.788410+6 | 0 | 0 | 1 | 203325 | 3624 | | | | |
| | | | | 3325 | 3625 | Only | in | VII.0 | |
| | | | | 3325 | 3626 | Only | in | VII.0 | |
| | | | | 3325 | 3627 | Only | in | VII.0 | |
| | | | | 3325 | 3628 | Only | in | VII.0 | |
| | | | | 3325 | 3629 | Only | in | VII.0 | |
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| | | | | 3325 | 3631 | Only | in | VII.0 | |
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| | | | | 3325 | 3634 | Only | in | VII.0 | |
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| | | | | 3325 | 3639 | Only | in | VII.0 | |
| -3.931172+5-1.651117+6 | 0 | 0 | 1 | 333325 | 3649 | | | | |
| -3.940000+5-2.397927+6 | 0 | 0 | 1 | 203325 | 3649 | | | | |
| 1.201572+6 1.201572+6 | 0 | 0 | 1 | 463325 | 3800 | | | | |
| 1.201000+6 1.201000+6 | 0 | 0 | 1 | 243325 | 3800 | | | | |
| 1.201572+6 1.185132+6 | 0 | 0 | 1 | 463325 | 3801 | | | | |
| 1.201000+6 1.184560+6 | 0 | 0 | 1 | 243325 | 3801 | | | | |
| 1.201572+6 1.081912+6 | 0 | 0 | 1 | 463325 | 3802 | | | | |
| 1.201000+6 1.081340+6 | 0 | 0 | 1 | 233325 | 3802 | | | | |
| 1.201572+6 1.072782+6 | 0 | 0 | 1 | 463325 | 3803 | | | | |
| 1.201000+6 1.072210+6 | 0 | 0 | 1 | 233325 | 3803 | | | | |
| 1.201572+6 1.040042+6 | 0 | 0 | 1 | 453325 | 3804 | | | | |
| 1.201000+6 1.039470+6 | 0 | 0 | 1 | 223325 | 3804 | | | | |
| 1.201572+6 1.036062+6 | 0 | 0 | 1 | 453325 | 3805 | | | | |
| 1.201000+6 1.035490+6 | 0 | 0 | 1 | 223325 | 3805 | | | | |
| 1.201572+6 1.003632+6 | 0 | 0 | 1 | 453325 | 3806 | | | | |
| 1.201000+6 1.003060+6 | 0 | 0 | 1 | 223325 | 3806 | | | | |
| 1.201572+6 9.931223+5 | 0 | 0 | 1 | 453325 | 3807 | | | | |
| 1.201000+6 9.925500+5 | 0 | 0 | 1 | 223325 | 3807 | | | | |
| 1.201572+6 9.727123+5 | 0 | 0 | 1 | 453325 | 3808 | | | | |
| 1.201000+6 9.721400+5 | 0 | 0 | 1 | 223325 | 3808 | | | | |
| 1.201572+6 9.526323+5 | 0 | 0 | 1 | 443325 | 3809 | | | | |
| 1.201000+6 9.520600+5 | 0 | 0 | 1 | 223325 | 3809 | | | | |
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| | | | | 3325 | 3824 | Only | in | VII.0 | |
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| | | | | 3325 | 3826 | Only | in | VII.0 | |

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| | | | | | 3325 3828 Only in VII.0 |
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| | | | | | 3325 3838 Only in VII.0 |
| | | | | | 3325 3839 Only in VII.0 |
| 1.201572+6 | 9.516323+5 | 0 | 0 | 1 | 443325 3849 |
| 1.201000+6 | -1.973432+6 | 0 | 0 | 1 | 213325 3849 |
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| 0.000000+0 | 0.000000+0 | | | | 3325 4 2 |
| 1.313800-2 | 0.000000+0 | | | | 3325 4 2 |
| ----- | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 333325 4 51 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 323325 4 51 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 333325 4 52 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 323325 4 52 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 333325 4 53 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 323325 4 53 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 323325 4 54 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 313325 4 54 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 313325 4 55 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 303325 4 55 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 313325 4 56 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 303325 4 56 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 303325 4 57 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 293325 4 57 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 303325 4 58 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 293325 4 58 |
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| 0.000000+0 | 6.260059+5 | 0 | 0 | 2 | 03325 4 59 |
| 0.000000+0 | 6.260160+5 | 0 | 0 | 2 | 03325 4 59 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 273325 4 60 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 283325 4 60 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 273325 4 61 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 283325 4 61 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 273325 4 62 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 283325 4 62 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 273325 4 63 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 283325 4 63 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 253325 4 64 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 263325 4 64 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 253325 4 65 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 253325 4 66 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 253325 4 67 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 243325 4 68 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 253325 4 68 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 243325 4 69 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 253325 4 69 |

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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 243325 4 70 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 253325 4 70 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 243325 4 71 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 253325 4 71 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 243325 4 72 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 253325 4 72 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 233325 4 73 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 243325 4 73 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 233325 4 74 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 243325 4 74 |
| 0.000000+0 | 1.319833+6 | 0 | 0 | 2 | 03325 4 75 |
| 0.000000+0 | 1.318718+6 | 0 | 0 | 2 | 03325 4 75 |
| 0.000000+0 | 1.327028+6 | 0 | 0 | 2 | 03325 4 76 |
| 0.000000+0 | 1.326620+6 | 0 | 0 | 2 | 03325 4 76 |
| 0.000000+0 | 1.367466+6 | 0 | 0 | 2 | 03325 4 77 |
| 0.000000+0 | 1.367465+6 | 0 | 0 | 2 | 03325 4 77 |
| 0.000000+0 | 1.389255+6 | 0 | 0 | 2 | 03325 4 78 |
| 0.000000+0 | 1.388440+6 | 0 | 0 | 2 | 03325 4 78 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 223325 4 79 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 233325 4 79 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 223325 4 80 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 233325 4 80 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 223325 4601 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 223325 4604 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 233325 4607 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 223325 4607 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 233325 4608 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 223325 4608 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 233325 4609 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 223325 4609 |
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| 0.000000+0 | 1.059069+6 | 0 | 0 | 2 | 03325 4610 |
| 0.000000+0 | 1.081129+6 | 0 | 0 | 2 | 03325 4611 |
| 0.000000+0 | 1.082044+6 | 0 | 0 | 2 | 03325 4611 |
| 0.000000+0 | 1.170770+6 | 0 | 0 | 2 | 03325 4612 |
| 0.000000+0 | 1.171806+6 | 0 | 0 | 2 | 03325 4612 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 213325 4613 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 223325 4613 |

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|------------|------------|---|---|---|-------------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 213325 4614 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 223325 4614 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 213325 4615 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 213325 4616 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 223325 4616 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 203325 4617 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 223325 4617 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 203325 4618 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 223325 4618 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 203325 4619 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 223325 4619 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 203325 4620 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 223325 4620 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 203325 4621 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 223325 4621 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 193325 4622 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 193325 4623 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 193325 4624 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 213325 4802 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 213325 4803 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 213325 4804 |
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| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 213325 4808 |

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|------------|------------|------------|------------|---|--------|------|------|------|---------------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 233325 | 4809 | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 213325 | 4809 | | | |
| | | | | | | | 3325 | 4810 | Only in VII.0 |
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| | | | | | | | 3325 | 4813 | Only in VII.0 |
| | | | | | | | 3325 | 4814 | Only in VII.0 |
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| | | | | | | | 3325 | 4821 | Only in VII.0 |
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| | | | | | | | 3325 | 4823 | Only in VII.0 |
| | | | | | | | 3325 | 4824 | Only in VII.0 |
| | | | | | | | 3325 | 4825 | Only in VII.0 |
| | | | | | | | 3325 | 4826 | Only in VII.0 |
| | | | | | | | 3325 | 4827 | Only in VII.0 |
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| | | | | | | | 3325 | 4829 | Only in VII.0 |
| | | | | | | | 3325 | 4830 | Only in VII.0 |
| | | | | | | | 3325 | 4831 | Only in VII.0 |
| | | | | | | | 3325 | 4832 | Only in VII.0 |
| | | | | | | | 3325 | 4833 | Only in VII.0 |
| | | | | | | | 3325 | 4834 | Only in VII.0 |
| | | | | | | | 3325 | 4835 | Only in VII.0 |
| | | | | | | | 3325 | 4836 | Only in VII.0 |
| | | | | | | | 3325 | 4837 | Only in VII.0 |
| | | | | | | | 3325 | 4838 | Only in VII.0 |
| | | | | | | | 3325 | 4839 | Only in VII.0 |
| 1.038116+7 | 2.000000+0 | 2.000000+7 | 2.000000+0 | | | | 3325 | 6 16 | |
| 1.038090+7 | 2.000000+0 | 2.000000+7 | 2.000000+0 | | | | 3325 | 6 16 | |
| | | | | | | | 3325 | 6 17 | |
| 1.846328+7 | 3.000000+0 | 2.000000+7 | 3.000000+0 | | | | 3325 | 6 17 | |
| 1.846327+7 | 3.000000+0 | 2.000000+7 | 3.000000+0 | | | | | | |
| | | | | | | | 3325 | 6 22 | |
| 5.391144+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | | | | 3325 | 6 22 | |
| 5.391620+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | | | | | | |
| | | | | | | | 3325 | 6 24 | Only in VII.0 |
| 6.991305+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | | | | 3325 | 6 28 | |
| 6.991880+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | | | | 3325 | 6 28 | |
| | | | | | | | 3325 | 6 41 | Only in VII.0 |
| 1.450772+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | | | | 3325 | 6 91 | |
| 6.930000+5 | 1.000000+0 | 2.000000+7 | 1.000000+0 | | | | 3325 | 6 91 | |
| | | | | | | | 3325 | 6649 | |
| 1.673346+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | | | | 3325 | 6649 | |
| 2.430210+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | | | | | | |
| | | | | | | | 3325 | 6849 | |
| 1.000000-5 | 1.000000+0 | 2.000000+7 | 1.000000+0 | | | | 3325 | 6849 | |
| 2.000000+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | | | | | | |
| ----- | | | | | | | | | |
| 34-Se-74 | | | | | | | | | |
| ***** | | | | | | | | | |
| 34-Se-76 | | | | | | | | | |
| ***** | | | | | | | | | |
| 34-Se-77 | | | | | | | | | |
| ***** | | | | | | | | | |
| 34-Se-78 | | | | | | | | | |
| ***** | | | | | | | | | |
| 34-Se-79 | | | | | | | | | |
| ***** | | | | | | | | | |
| 34-Se-80 | | | | | | | | | |
| ***** | | | | | | | | | |
| 34-Se-82 | | | | | | | | | |
| ***** | | | | | | | | | |
| 35-Br-79 | | | | | | | | | |
| ***** | | | | | | | | | |
| 35-Br-81 | | | | | | | | | |
| ***** | | | | | | | | | |

36-Kr-78

| | | | | | | | |
|-------------|-------------|---|---|---|---------|---|----|
| ***** | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1033625 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 863625 | 3 | 1 |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1033625 | 3 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 863625 | 3 | 2 |
| ----- | | | | | | | |
| -1.208160+7 | -1.208160+7 | 0 | 0 | 1 | 3625 | 3 | 4 |
| -1.199010+7 | -1.199010+7 | 0 | 0 | 1 | 413625 | 3 | 16 |
| ----- | | | | | | | |
| -4.391908+6 | -4.391908+6 | 0 | 0 | 1 | 573625 | 3 | 22 |
| -4.359190+6 | -4.359190+6 | 0 | 0 | 2 | 253625 | 3 | 22 |
| ----- | | | | | | | |
| -8.233784+6 | -8.233784+6 | 0 | 0 | 1 | 553625 | 3 | 28 |
| -8.202130+6 | -8.202130+6 | 0 | 0 | 2 | 173625 | 3 | 28 |
| ----- | | | | | | | |
| 0.000000+0 | -4.550400+5 | 0 | 0 | 1 | 993625 | 3 | 51 |
| 0.000000+0 | -4.549990+5 | 0 | 0 | 1 | 533625 | 3 | 51 |
| ----- | | | | | | | |
| 0.000000+0 | -1.017180+6 | 0 | 0 | 1 | 963625 | 3 | 52 |
| 0.000000+0 | -1.017200+6 | 0 | 0 | 1 | 473625 | 3 | 52 |
| ----- | | | | | | | |
| 0.000000+0 | -1.119470+6 | 0 | 0 | 1 | 963625 | 3 | 53 |
| 0.000000+0 | -1.119500+6 | 0 | 0 | 1 | 463625 | 3 | 53 |
| ----- | | | | | | | |
| 0.000000+0 | -1.147920+6 | 0 | 0 | 1 | 963625 | 3 | 54 |
| 0.000000+0 | -1.147900+6 | 0 | 0 | 1 | 453625 | 3 | 54 |
| ----- | | | | | | | |
| 0.000000+0 | -1.564760+6 | 0 | 0 | 1 | 943625 | 3 | 55 |
| 0.000000+0 | -1.564700+6 | 0 | 0 | 1 | 423625 | 3 | 55 |
| ----- | | | | | | | |
| 0.000000+0 | -1.653900+6 | 0 | 0 | 1 | 933625 | 3 | 56 |
| 0.000000+0 | -1.653800+6 | 0 | 0 | 1 | 413625 | 3 | 56 |
| ----- | | | | | | | |
| 0.000000+0 | -1.755860+6 | 0 | 0 | 1 | 933625 | 3 | 57 |
| 0.000000+0 | -1.755900+6 | 0 | 0 | 1 | 393625 | 3 | 57 |
| ----- | | | | | | | |
| 0.000000+0 | -1.772930+6 | 0 | 0 | 1 | 933625 | 3 | 58 |
| 0.000000+0 | -1.772900+6 | 0 | 0 | 1 | 383625 | 3 | 58 |
| ----- | | | | | | | |
| 0.000000+0 | -1.872900+6 | 0 | 0 | 1 | 923625 | 3 | 59 |
| 0.000000+0 | -1.872900+6 | 0 | 0 | 1 | 373625 | 3 | 59 |
| ----- | | | | | | | |
| 0.000000+0 | -1.977820+6 | 0 | 0 | 1 | 913625 | 3 | 60 |
| 0.000000+0 | -1.977800+6 | 0 | 0 | 1 | 353625 | 3 | 60 |
| ----- | | | | | | | |
| 0.000000+0 | -2.007420+6 | 0 | 0 | 1 | 913625 | 3 | 61 |
| 0.000000+0 | -2.007500+6 | 0 | 0 | 1 | 343625 | 3 | 61 |
| ----- | | | | | | | |
| 0.000000+0 | -2.234200+6 | 0 | 0 | 1 | 903625 | 3 | 62 |
| 0.000000+0 | -2.234100+6 | 0 | 0 | 1 | 333625 | 3 | 62 |
| ----- | | | | | | | |
| 0.000000+0 | -2.240690+6 | 0 | 0 | 1 | 903625 | 3 | 63 |
| 0.000000+0 | -2.240700+6 | 0 | 0 | 1 | 323625 | 3 | 63 |
| ----- | | | | | | | |
| 0.000000+0 | -2.299780+6 | 0 | 0 | 1 | 903625 | 3 | 64 |
| 0.000000+0 | -2.299800+6 | 0 | 0 | 1 | 313625 | 3 | 64 |
| ----- | | | | | | | |
| 0.000000+0 | -2.399030+6 | 0 | 0 | 1 | 893625 | 3 | 65 |
| 0.000000+0 | -2.399000+6 | 0 | 0 | 1 | 303625 | 3 | 65 |
| ----- | | | | | | | |
| 0.000000+0 | -2.413440+6 | 0 | 0 | 1 | 893625 | 3 | 66 |
| 0.000000+0 | -2.413400+6 | 0 | 0 | 1 | 293625 | 3 | 66 |
| ----- | | | | | | | |
| 0.000000+0 | -2.443370+6 | 0 | 0 | 1 | 893625 | 3 | 67 |
| 0.000000+0 | -2.443400+6 | 0 | 0 | 1 | 283625 | 3 | 67 |
| ----- | | | | | | | |
| 0.000000+0 | -2.471900+6 | 0 | 0 | 1 | 893625 | 3 | 68 |
| 0.000000+0 | -2.471800+6 | 0 | 0 | 1 | 273625 | 3 | 68 |
| ----- | | | | | | | |
| 0.000000+0 | -2.508020+6 | 0 | 0 | 1 | 893625 | 3 | 69 |
| 0.000000+0 | -2.508000+6 | 0 | 0 | 1 | 263625 | 3 | 69 |
| ----- | | | | | | | |

Only in VII.0

| | | | | | |
|-------------------------|---|---|---|--------------|-------------------------|
| 0.000000+0-2.573350+6 | 0 | 0 | 1 | 883625 3 70 | |
| 0.000000+0-2.573300+6 | 0 | 0 | 1 | 253625 3 70 | |
| | | | | | 3625 3 71 Only in VII.0 |
| | | | | | 3625 3 72 Only in VII.0 |
| | | | | | 3625 3 73 Only in VII.0 |
| | | | | | 3625 3 74 Only in VII.0 |
| | | | | | 3625 3 75 Only in VII.0 |
| | | | | | 3625 3 76 Only in VII.0 |
| | | | | | 3625 3 77 Only in VII.0 |
| | | | | | 3625 3 78 Only in VII.0 |
| | | | | | 3625 3 79 Only in VII.0 |
| 0.000000+0-3.948882+5 | 0 | 0 | 1 | 993625 3 91 | |
| 0.000000+0-2.999400+6 | 0 | 0 | 1 | 143625 3 91 | |
| | | | | | 3625 3104 Only in VII.0 |
| | | | | | 3625 3105 Only in VII.0 |
| | | | | | 3625 3106 Only in VII.0 |
| 8.334326+6 8.334326+6 | 0 | 0 | 1 | 1033625 3102 | |
| 8.360390+6 8.360390+6 | 0 | 0 | 2 | 693625 3102 | |
| | | | | | 3625 3107 Only in VII.0 |
| 5.492151+4 5.492151+4 | 0 | 0 | 1 | 1163625 3103 | |
| 9.046720+4 9.046720+4 | 0 | 0 | 2 | 323625 3103 | |
| | | | | | 3625 3107 Only in VII.0 |
| | | | | | 3625 3107 Only in VII.0 |
| 3.635692+6 3.635692+6 | 0 | 0 | 1 | 1163625 3107 | |
| 3.673200+6 3.673200+6 | 0 | 0 | 2 | 323625 3107 | |
| | | | | | 3625 3111 Only in VII.0 |
| -6.086758+6 -6.086758+6 | 0 | 0 | 1 | 573625 3111 | |
| -6.055080+6 -6.055080+6 | 0 | 0 | 2 | 203625 3111 | |
| | | | | | 3625 3112 Only in VII.1 |
| 0.000000+0 7.725099+1 | 0 | 2 | 0 | 03625 4 2 | |
| 0.000000+0 7.725100+1 | 0 | 2 | 0 | 03625 4 2 | |
| | | | | | 3625 4 16 Only in VII.0 |
| | | | | | 3625 4 22 Only in VII.0 |
| | | | | | 3625 4 28 Only in VII.0 |
| 0.000000+0 7.725099+1 | 0 | 2 | 0 | 03625 4 51 | |
| 0.000000+0 7.725100+1 | 0 | 2 | 0 | 03625 4 51 | |
| | | | | | 3625 4 52 Only in VII.0 |
| 0.000000+0 7.725099+1 | 0 | 2 | 0 | 03625 4 52 | |
| 0.000000+0 7.725100+1 | 0 | 2 | 0 | 03625 4 52 | |
| | | | | | 3625 4 53 Only in VII.0 |
| 0.000000+0 7.725099+1 | 0 | 2 | 0 | 03625 4 53 | |
| 0.000000+0 7.725100+1 | 0 | 2 | 0 | 03625 4 53 | |
| | | | | | 3625 4 54 Only in VII.0 |
| 0.000000+0 7.725099+1 | 0 | 2 | 0 | 03625 4 54 | |
| 0.000000+0 7.725100+1 | 0 | 2 | 0 | 03625 4 54 | |
| | | | | | 3625 4 55 Only in VII.0 |
| 0.000000+0 7.725099+1 | 0 | 2 | 0 | 03625 4 55 | |
| 0.000000+0 7.725100+1 | 0 | 2 | 0 | 03625 4 55 | |
| | | | | | 3625 4 56 Only in VII.0 |
| 0.000000+0 7.725099+1 | 0 | 2 | 0 | 03625 4 56 | |
| 0.000000+0 7.725100+1 | 0 | 2 | 0 | 03625 4 56 | |
| | | | | | 3625 4 57 Only in VII.0 |
| 0.000000+0 7.725099+1 | 0 | 2 | 0 | 03625 4 57 | |
| 0.000000+0 7.725100+1 | 0 | 2 | 0 | 03625 4 57 | |
| | | | | | 3625 4 58 Only in VII.0 |
| 0.000000+0 7.725099+1 | 0 | 2 | 0 | 03625 4 58 | |
| 0.000000+0 7.725100+1 | 0 | 2 | 0 | 03625 4 58 | |
| | | | | | 3625 4 59 Only in VII.0 |
| 0.000000+0 7.725099+1 | 0 | 2 | 0 | 03625 4 59 | |
| 0.000000+0 7.725100+1 | 0 | 2 | 0 | 03625 4 59 | |
| | | | | | 3625 4 60 Only in VII.0 |
| 0.000000+0 7.725099+1 | 0 | 2 | 0 | 03625 4 60 | |
| 0.000000+0 7.725100+1 | 0 | 2 | 0 | 03625 4 60 | |
| | | | | | 3625 4 61 Only in VII.0 |
| 0.000000+0 7.725099+1 | 0 | 2 | 0 | 03625 4 61 | |
| 0.000000+0 7.725100+1 | 0 | 2 | 0 | 03625 4 61 | |
| | | | | | 3625 4 62 Only in VII.0 |
| 0.000000+0 7.725099+1 | 0 | 2 | 0 | 03625 4 62 | |
| 0.000000+0 7.725100+1 | 0 | 2 | 0 | 03625 4 62 | |
| | | | | | 3625 4 63 Only in VII.0 |
| 0.000000+0 7.725099+1 | 0 | 2 | 0 | 03625 4 63 | |
| 0.000000+0 7.725100+1 | 0 | 2 | 0 | 03625 4 63 | |

| | | | | | |
|------------|------------|------------|------------|---------------------------|-------------------------|
| ----- | | | | | |
| 0.000000+0 | 7.725099+1 | 0 | 2 | 0 | 03625 4 64 |
| 0.000000+0 | 7.725100+1 | 0 | 2 | 0 | 03625 4 64 |
| ----- | | | | | |
| 0.000000+0 | 7.725099+1 | 0 | 2 | 0 | 03625 4 65 |
| 0.000000+0 | 7.725100+1 | 0 | 2 | 0 | 03625 4 65 |
| ----- | | | | | |
| 0.000000+0 | 7.725099+1 | 0 | 2 | 0 | 03625 4 66 |
| 0.000000+0 | 7.725100+1 | 0 | 2 | 0 | 03625 4 66 |
| ----- | | | | | |
| 0.000000+0 | 7.725099+1 | 0 | 2 | 0 | 03625 4 67 |
| 0.000000+0 | 7.725100+1 | 0 | 2 | 0 | 03625 4 67 |
| ----- | | | | | |
| 0.000000+0 | 7.725099+1 | 0 | 2 | 0 | 03625 4 68 |
| 0.000000+0 | 7.725100+1 | 0 | 2 | 0 | 03625 4 68 |
| ----- | | | | | |
| 0.000000+0 | 7.725099+1 | 0 | 2 | 0 | 03625 4 69 |
| 0.000000+0 | 7.725100+1 | 0 | 2 | 0 | 03625 4 69 |
| ----- | | | | | |
| 0.000000+0 | 7.725099+1 | 0 | 2 | 0 | 03625 4 70 |
| 0.000000+0 | 7.725100+1 | 0 | 2 | 0 | 03625 4 70 |
| ----- | | | | | |
| | | | | | 3625 4 71 Only in VII.0 |
| | | | | | 3625 4 72 Only in VII.0 |
| | | | | | 3625 4 73 Only in VII.0 |
| | | | | | 3625 4 74 Only in VII.0 |
| | | | | | 3625 4 75 Only in VII.0 |
| | | | | | 3625 4 76 Only in VII.0 |
| | | | | | 3625 4 77 Only in VII.0 |
| | | | | | 3625 4 78 Only in VII.0 |
| | | | | | 3625 4 79 Only in VII.0 |
| | | | | | 3625 4 91 Only in VII.0 |
| | | | | | 3625 5 16 Only in VII.0 |
| | | | | | 3625 5 22 Only in VII.0 |
| | | | | | 3625 5 28 Only in VII.0 |
| | | | | | 3625 5 91 Only in VII.0 |
| | | | | | 3625 6 16 Only in VII.1 |
| | | | | | 3625 6 22 Only in VII.1 |
| | | | | | 3625 6 28 Only in VII.1 |
| | | | | | 3625 6 91 Only in VII.1 |
| | | | | | 3625 6103 Only in VII.1 |
| | | | | | 3625 6107 Only in VII.1 |
| | | | | | 3625 6111 Only in VII.1 |
| | | | | | 3625 6112 Only in VII.1 |
| 36-Kr-80 | | | | | |
| ***** | | | | | |
| 36-Kr-82 | | | | | |
| ***** | | | | | |
| 36-Kr-83 | | | | | |
| ***** | | | | | |
| 36-Kr-84 | | | | | |
| ***** | | | | | |
| 36-Kr-85 | | | | | |
| ***** | | | | | |
| 4.062800+5 | 9.830489-7 | 1.70875-14 | 6.094200+5 | 4.184170-7-4.12103-133646 | 6 22 |
| 4.062800+5 | 9.830490-7 | 1.70875-14 | 6.094200+5 | 4.184170-7-4.12103-133646 | 6 22 |
| ----- | | | | | |
| 2.983730-8 | 4.024000-9 | 3.457650+6 | 9.605239-7 | 4.420200-8 | 6.034690-93646 6649 |
| 2.983730-8 | 4.024000-9 | 3.457650+6 | 9.605240-7 | 4.420200-8 | 6.034690-93646 6649 |
| ----- | | | | | |
| 6.385710+6 | 1.471380-6 | 6.534210+6 | 9.563699-7 | 6.682720+6 | 4.95074-123646 6849 |
| 6.385710+6 | 1.471380-6 | 6.534210+6 | 9.563700-7 | 6.682720+6 | 4.95074-123646 6849 |
| ----- | | | | | |
| 36-Kr-86 | | | | | |
| ***** | | | | | |
| 2.274390+6 | 1.688790-3 | 2.377190+6 | 1.157120-3 | 2.765090+6 | 9.803399-43649 3102 |
| 2.274390+6 | 1.688790-3 | 2.377190+6 | 1.157120-3 | 2.765090+6 | 9.803400-43649 3102 |
| ----- | | | | | |
| 37-Rb-85 | | | | | |
| ***** | | | | | |
| 37-Rb-86 | | | | | |
| ***** | | | | | |
| 1.150000+2 | 2.500000+0 | 5.500000-1 | 3.000000-1 | 2.500000-1 | 0.000000+03728 2151 |
| 1.150000+2 | 2.500000+0 | 5.000000-1 | 3.000000-1 | 2.500000-1 | 0.000000+03728 2151 |
| ----- | | | | | |

| | | | | | | | |
|-------------|-------------|------------|------------|-------------|----------------|------|------|
| 6.055000+5 | 1.962200-6 | 6.392000+5 | 9.709109-7 | 6.728000+5 | 3.258410-73728 | 6 | 22 |
| 6.055000+5 | 1.962200-6 | 6.392000+5 | 9.709110-7 | 6.728000+5 | 3.258410-73728 | 6 | 22 |
| ----- | | | | | | | |
| -5.00491-11 | 0.000000+0 | 1.997800+5 | 9.599351-7 | -6.83934-11 | 0.000000+03728 | 6 | 91 |
| -5.00491-11 | 0.000000+0 | 1.997800+5 | 9.599350-7 | -6.83934-11 | 0.000000+03728 | 6 | 91 |
| ----- | | | | | | | |
| 1.156000+5 | 2.192000-6 | 1.348000+5 | 9.925481-7 | 1.541000+5 | 4.349620-73728 | 6649 | |
| 1.156000+5 | 2.192000-6 | 1.348000+5 | 9.925480-7 | 1.541000+5 | 4.349620-73728 | 6649 | |
| ----- | | | | | | | |
| 37-Rb-87 | | | | | | | |
| ***** | | | | | | | |
| | 3 | 2 | | | | 3731 | 5 17 |
| | 1 | 2 | | | | 3731 | 5 17 |
| ----- | | | | | | | |
| 38-Sr-84 | | | | | | | |
| ***** | | | | | | | |
| 2.378030+6 | 9.795079-7 | 1.67042-11 | 2.481420+6 | 1.357160-6 | 3.96379-113825 | 6649 | |
| 2.378030+6 | 9.795080-7 | 1.67042-11 | 2.481420+6 | 1.357160-6 | 3.96379-113825 | 6649 | |
| ----- | | | | | | | |
| 38-Sr-86 | | | | | | | |
| ***** | | | | | | | |
| 38-Sr-87 | | | | | | | |
| ***** | | | | | | | |
| 38-Sr-88 | | | | | | | |
| ***** | | | | | | | |
| 38-Sr-89 | | | | | | | |
| ***** | | | | | | | |
| 38-Sr-90 | | | | | | | |
| ***** | | | | | | | |
| 39-Y -89 | | | | | | | |
| ***** | | | | | | | |
| 1.000000-5 | 4.500000+4 | 1 | 2 | 0 | 03925 | 2151 | |
| 1.000000-5 | 4.100000+5 | 1 | 2 | 0 | 03925 | 2151 | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 7333925 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 2763925 | 3 | 1 |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 7333925 | 3 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 4023925 | 3 | 2 |
| ----- | | | | | | | |
| 0.000000+0 | -9.089600+5 | 0 | 0 | 1 | 783925 | 3 | 4 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 803925 | 3 | 4 |
| ----- | | | | | | | |
| 1.160670+7 | 0.000000+0 | 1.200000+7 | 7.250379-2 | 1.250000+7 | 2.733047-13925 | 3 | 16 |
| 1.160620+7 | 0.000000+0 | 1.200000+7 | 7.250400-2 | 1.250000+7 | 2.733100-13925 | 3 | 16 |
| ----- | | | | | | | |
| 9.192724+5 | 0.000000+0 | 1.000000+6 | 5.901300-2 | 1.100000+6 | 8.690040-23925 | 3 | 51 |
| 9.192724+5 | 0.000000+0 | 1.000000+6 | 5.353590-2 | 1.100000+6 | 8.167970-23925 | 3 | 51 |
| ----- | | | | | | | |
| 0.000000+0 | -4.022800+6 | 0 | 0 | 1 | 333925 | 3 | 91 |
| 0.000000+0 | -9.788940+5 | 0 | 0 | 1 | 943925 | 3 | 91 |
| ----- | | | | | | | |
| 6.857000+6 | 6.857000+6 | 0 | 0 | 1 | 603925 | 3102 | |
| 6.857000+6 | 6.857000+6 | 0 | 0 | 1 | 553925 | 3102 | |
| ----- | | | | | | | |
| -7.130000+5 | -7.130000+5 | 0 | 0 | 1 | 803925 | 3103 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 813925 | 3103 | |
| ----- | | | | | | | |
| 6.910000+5 | 6.910000+5 | 0 | 0 | 1 | 713925 | 3107 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 713925 | 3107 | |
| ----- | | | | | | | |
| 8.366300+5 | 6.638400-8 | 1.115510+6 | 9.745301-7 | 1.394380+6 | 1.573250-73925 | 6 | 28 |
| 8.366300+5 | 6.638400-8 | 1.115510+6 | 9.745300-7 | 1.394380+6 | 1.573250-73925 | 6 | 28 |
| ----- | | | | | | | |
| 4.068440+6 | 1.000000+0 | 2.000000+7 | 1.000000+0 | | 3925 | 6 | 91 |
| 9.899999+5 | 1.000000+0 | 2.000000+7 | 1.000000+0 | | 3925 | 6 | 91 |
| ----- | | | | | | | |
| 39-Y -90 | | | | | | | |
| ***** | | | | | | | |
| 39-Y -91 | | | | | | | |
| ***** | | | | | | | |
| 40-Zr-90 | | | | | | | |
| ***** | | | | | | | |
| 1.000000-5 | 5.350000+4 | 1 | 2 | 0 | 04025 | 2151 | |
| 1.000000-5 | 6.000000+4 | 1 | 2 | 0 | 04025 | 2151 | |

| | | | | | | |
|-------------|-------------|--------------|------------|--------------|---------------------|----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 364025 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 404025 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1104025 3 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1134025 3 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 494025 3 | 4 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 504025 3 | 4 |
| 1.500000+7 | 8.468020-2 | 1.600000+7 | 1.053760-1 | 1.700000+7 | 1.181900-14025 3 | 28 |
| 1.500000+7 | 8.468020-2 | 1.600000+7 | 1.113760-1 | 1.700000+7 | 1.181900-14025 3 | 28 |
| 7.194000+6 | 7.194000+6 | 0 | 0 | 1 | 444025 3102 | |
| 7.194000+6 | 7.194000+6 | 0 | 0 | 1 | 484025 3102 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 484025 3103 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 494025 3103 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 684025 3107 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 694025 3107 | |
| 1.756000+6 | 1.756000+6 | 0 | 0 | 1 | 354025 3800 | |
| 1.756000+6 | 1.756000+6 | 0 | 0 | 1 | 364025 3800 | |
| 1.756000+6 | 1.367470+6 | 0 | 0 | 1 | 334025 3801 | |
| 1.756000+6 | 1.367470+6 | 0 | 0 | 1 | 344025 3801 | |
| 1.756000+6 | 8.826600+5 | 0 | 0 | 1 | 314025 3802 | |
| 1.756000+6 | 8.826600+5 | 0 | 0 | 1 | 324025 3802 | |
| 1.756000+6 | 5.275800+5 | 0 | 0 | 1 | 304025 3803 | |
| 1.756000+6 | 5.275800+5 | 0 | 0 | 1 | 314025 3803 | |
| 1.756000+6 | 5.020600+5 | 0 | 0 | 1 | 304025 3804 | |
| 1.756000+6 | 5.020600+5 | 0 | 0 | 1 | 314025 3804 | |
| 1.756000+6 | 1.600000+4 | 0 | 0 | 1 | 264025 3805 | |
| 1.756000+6 | 1.600000+4 | 0 | 0 | 1 | 274025 3805 | |
| 1.756000+6 | 1.400000+4 | 0 | 0 | 1 | 264025 3806 | |
| 1.756000+6 | 1.400000+4 | 0 | 0 | 1 | 274025 3806 | |
| 1.286999+6 | 9.330550-1 | 1.300000+6 | 9.423740-1 | 1.500000+6 | 9.279840-14025 6 | 91 |
| 1.286999+6 | 1.376280+0 | 1.300000+6 | 1.007370+0 | 1.500000+6 | 1.002450+04025 6 | 91 |
| 4.000000+5 | 1.296860+0 | 5.000000+5 | 1.389520+0 | 7.000000+5 | 1.718870+04025 6102 | |
| 4.000000+5 | 1.296860+0 | 5.000000+5 | 1.385600+0 | 7.000000+5 | 1.718870+04025 6102 | |
| 2.897000+5 | 1.731810-7 | 3.091000+5 | 4.356770-7 | 3.284000+5 | 9.836129-74025 6849 | |
| 2.897000+5 | 1.731810-7 | 3.091000+5 | 4.356770-7 | 3.284000+5 | 9.836130-74025 6849 | |
| 40-Zr-91 | | | | | | |
| ***** | | | | | | |
| -1.180000+3 | 2.000000+0 | 6.126350+1 | 6.112440+1 | 1.391000-1 | 0.000000+04028 2151 | |
| -1.179500+3 | 2.000000+0 | 3.200600+1 | 3.187200+1 | 1.340000-1 | 0.000000+04028 2151 | |
| 1.400000+7 | 1.002000-3 | 1.500000+7 | 9.841440-4 | 1.600000+7 | 9.831639-44028 3102 | |
| 1.400000+7 | 1.002000-3 | 1.500000+7 | 9.841440-4 | 1.600000+7 | 9.831640-44028 3102 | |
| -9.861481-7 | -1.904180-7 | | | | 4028 4 63 | |
| -9.861480-7 | -1.904180-7 | | | | 4028 4 63 | |
| 40-Zr-92 | | | | | | |
| ***** | | | | | | |
| 2.303200-2 | 9.185300-3 | 5.515400-3 | 2.502100-3 | 9.807301-4 | 3.522600-44031 4 51 | |
| 2.303200-2 | 9.185300-3 | 5.515400-3 | 2.502100-3 | 9.807300-4 | 3.522600-44031 4 51 | |
| 40-Zr-93 | | | | | | |
| ***** | | | | | | |
| 1.500000+7 | 9.786889-4 | 1.600000+7 | 9.747370-4 | 1.700000+7 | 9.851620-44034 3102 | |
| 1.500000+7 | 9.786890-4 | 1.600000+7 | 9.747370-4 | 1.700000+7 | 9.851620-44034 3102 | |
| 0.000000+0 | 9.826761-4 | 0.000000+0-6 | 1.26880-3 | 0.000000+0-3 | 2.34990-44034 4 60 | |
| 0.000000+0 | 9.826760-4 | 0.000000+0-6 | 1.26880-3 | 0.000000+0-3 | 2.34990-44034 4 60 | |

40-Zr-94

0.000000+0-3.804930-3 0.000000+0-9.915431-4 0.000000+0-5.042840-54037 4 58
0.000000+0-3.804930-3 0.000000+0-9.915430-4 0.000000+0-5.042840-54037 4 58

40-Zr-95

40-Zr-96

1.200000+7 7.883900-4 1.300000+7 9.838491-4 1.400000+7 1.000530-34043 3102
1.200000+7 7.883900-4 1.300000+7 9.838490-4 1.400000+7 1.000530-34043 3102

2.500000+5 9.543199-7 1.863010-9 2.201160-8 6.49679-11 8.22708-104043 6 17
2.500000+5 9.543200-7 1.863010-9 2.201160-8 6.49679-11 8.22708-104043 6 17

6.120150+6 2.234700-7 9.999660-1 6.609760+6 2.919190-7 0.999998+04043 6204
6.120150+6 2.234700-7 9.999660-1 6.609760+6 2.919190-7 0.999998+14043 6204

41-Nb-93

1.667793+6 9.613437-7 2.223723+6 2.242543-7 2.779654+6 5.367876-84125 6 5
1.667793+6 9.613438-7 2.223723+6 2.242543-7 2.779654+6 5.367876-84125 6 5

41-Nb-94

41-Nb-95

42-Mo-92

1.700000+7 9.789560-4 1.800000+7 9.955449-4 1.900000+7 1.023700-34225 3102
1.700000+7 9.789560-4 1.800000+7 9.955450-4 1.900000+7 1.023700-34225 3102

42-Mo-94

4.976340+4 9.733971-7 2.903960-9 2.188130-8 9.95301-11 8.05128-104231 6 28
4.976340+4 9.733970-7 2.903960-9 2.188130-8 9.95301-11 8.05128-104231 6 28

42-Mo-95

9.409060+1 0.000000+0 0 0 138 234234 2151
9.409060+1 0.000000+0 0 0 126 214234 2151

2.100000+5 1.215620-6 2.333000+5 9.537119-7 2.566000+5 7.355840-74234 6 91
2.100000+5 1.215620-6 2.333000+5 9.537120-7 2.566000+5 7.355840-74234 6 91

42-Mo-96

9.957409-7 1.388850-7 2.117540-8 3.11672-10 2.166470-9-1.620620-94237 4 51
9.957410-7 1.388850-7 2.117540-8 3.11672-10 2.166470-9-1.620620-94237 4 51

0.000000+0-5.083260-2 0.000000+0 4.312350-3 0.000000+0 9.864341-44237 4 63
0.000000+0-5.083260-2 0.000000+0 4.312350-3 0.000000+0 9.864340-44237 4 63

1.250000+5 9.860109-7 1.934130-9 2.238020-8 6.67227-11 8.28345-104237 6 22
1.250000+5 9.860110-7 1.934130-9 2.238020-8 6.67227-11 8.28345-104237 6 22

42-Mo-97

1.250000+5 9.780561-7 2.001600-9 2.219960-8 6.90503-11 8.21662-104240 6 22
1.250000+5 9.780560-7 2.001600-9 2.219960-8 6.90503-11 8.21662-104240 6 22

1.573730+7 1.558500-8 0.999998+0 1.600180+7 0.000000+0 0.000000+04240 6203
1.573730+7 1.558500-8 0.999998+1 1.600180+7 0.000000+0 0.000000+04240 6203

42-Mo-98

42-Mo-99

42-Mo-100

43-Tc-99

-3.651000+1 5.000000+0 2.207000-1 8.370000-2 1.372000-1 0.000000+04325 2151
-3.162000+1 5.000000+0 2.044570-1 6.745660-2 1.370000-1 0.000000+04325 2151

```
-----
1.000000-5 0.000000+0 1.403400+5 0.000000+0 1.403400+5 9.730000+04325 3 1
1.000000-5 0.000000+0 1.419400+5 0.000000+0 1.419400+5 9.772220+04325 3 1
-----
1.000000-5 0.000000+0 1.000000+3 0.000000+0 1.403400+5 0.000000+04325 3 2
1.000000-5 0.000000+0 1.000000+3 0.000000+0 1.419400+5 0.000000+04325 3 2
-----
1.000000-5 0.000000+0 1.419430+5 0.000000+0 1.441350+5 3.283800-24325 3 4
1.000000-5 0.000000+0 1.419430+5 0.000000+0 1.441350+5 3.278451-24325 3 4
-----
1.000000-5 0.000000+0 1.403400+5 0.000000+0 1.403400+5 3.775000-14325 3102
1.000000-5 0.000000+0 1.419400+5 0.000000+0 1.419400+5 3.728027-14325 3102
-----
1.250000+7 9.006665-8 1.300000+7 6.412880-8 1.350000+7 4.819890-84325 3600
1.250000+7 9.006650-8 1.300000+7 6.412880-8 1.350000+7 4.819890-84325 3600
-----
1.285950+6 0.000000+0 2.700000+6 0.000000+0 3.000000+6 4.531839-94325 3649
1.285950+6 0.000000+0 2.700000+6 0.000000+0 3.000000+6 4.531840-94325 3649
-----
1.100000+6 3.790880-9 1.200000+6 5.302141-9 1.500000+6 1.215270-84325 3800
1.100000+6 3.790880-9 1.200000+6 5.302140-9 1.500000+6 1.215270-84325 3800
-----
2.200000+6 1.204650-9 2.500000+6 3.619270-9 2.700000+6 7.048959-94325 3849
2.200000+6 1.204650-9 2.500000+6 3.619270-9 2.700000+6 7.048960-94325 3849
-----
7.870360-3 2.869160-3 9.769161-4 2.199540-4 1.753830-4-1.040000-44325 4 55
7.870360-3 2.869160-3 9.769160-4 2.199540-4 1.753830-4-1.040000-44325 4 55
-----
7.870360-3 2.869160-3 9.769161-4 2.199540-4 1.753830-4-1.040000-44325 4 56
7.870360-3 2.869160-3 9.769160-4 2.199540-4 1.753830-4-1.040000-44325 4 56
-----
3.642160-1 1.684870-1 9.847831-4-2.282160-2-5.735480-2-2.582740-24325 4 66
3.642160-1 1.684870-1 9.847830-4-2.282160-2-5.735480-2-2.582740-24325 4 66
-----
2.391800-3 9.968519-4 4.718870-4 1.512340-4 2.900290-7-1.282850-44325 4 67
2.391800-3 9.968520-4 4.718870-4 1.512340-4 2.900290-7-1.282850-44325 4 67
-----
2.391800-3 9.968519-4 4.718870-4 1.512340-4 2.900290-7-1.282850-44325 4 68
2.391800-3 9.968520-4 4.718870-4 1.512340-4 2.900290-7-1.282850-44325 4 68
-----
2.391800-3 9.968519-4 4.718870-4 1.512340-4 2.900290-7-1.282850-44325 4 69
2.391800-3 9.968520-4 4.718870-4 1.512340-4 2.900290-7-1.282850-44325 4 69
-----
2.391800-3 9.968519-4 4.718870-4 1.512340-4 2.900290-7-1.282850-44325 4 70
2.391800-3 9.968520-4 4.718870-4 1.512340-4 2.900290-7-1.282850-44325 4 70
-----
2.116000+5 4.797110-6 2.351000+5 9.931360-7 3.057000+5 9.902139-74325 6 24
2.116000+5 4.797110-6 2.351000+5 9.931360-7 3.057000+5 9.902140-74325 6 24
-----
1.222000+5 9.923029-7 1.357000+5 8.051440-7 1.493000+5 6.635360-74325 6 91
1.222000+5 9.923030-7 1.357000+5 8.051440-7 1.493000+5 6.635360-74325 6 91
-----
3.080460+6 8.308710-7 2.186810-9 3.190470+6 9.954171-7 3.188430-94325 6649
3.080460+6 8.308710-7 2.186810-9 3.190470+6 9.954170-7 3.188430-94325 6649
-----
44-Ru-96
*****
44-Ru-98
*****
44-Ru-99
*****
44-Ru-100
*****
0.000000+0 0.000000+0 1.250000+5 9.539619-7 2.500000+5 1.186470-64437 5 28
0.000000+0 0.000000+0 1.250000+5 9.539620-7 2.500000+5 1.186470-64437 5 28
-----
44-Ru-101
*****
4.398390+6 1.789160-6 4.607840+6 1.752640-6 4.817290+6 9.928229-74440 6 24
4.398390+6 1.789160-6 4.607840+6 1.752640-6 4.817290+6 9.928230-74440 6 24
-----
3.690600+5 9.832530-7 1.77209-14 4.613300+5 9.689981-7-1.22967-144440 6 91
3.690600+5 9.832530-7 1.77209-14 4.613300+5 9.689980-7-1.22967-144440 6 91
-----
44-Ru-102
```

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*****
44-Ru-103
*****
44-Ru-104
*****
44-Ru-105
*****
44-Ru-106
*****
45-Rh-103
*****
1.000000-5 4.170000+3      1      2      0      04525 2151
1.000000-5 4.115900+3      1      2      0      04525 2151
-----
1.763140-9 0.000000+0 5.046500+5 9.697829-7 1.013070-9 0.000000+04525 6 24
1.763140-9 0.000000+0 5.046500+5 9.697830-7 1.013070-9 0.000000+04525 6 24
-----
45-Rh-105
*****
46-Pd-102
*****
46-Pd-104
*****
46-Pd-105
*****
46-Pd-106
*****
46-Pd-107
*****
46-Pd-108
*****
46-Pd-110
*****
47-Ag-107
*****
47-Ag-109
*****
1.000000-5 7.000000+3      1      2      0      04731 2151
1.000000-5 4.996300+3      1      2      0      04731 2151
-----
0.000000+0 7.234050-7-1.81388-15 1.547000+5 9.654379-7 6.41865-114731 6 28
0.000000+0 7.234050-7-1.81388-15 1.547000+5 9.654380-7 6.41865-114731 6 28
-----
47-Ag-110m
*****
47-Ag-111
*****
3.388300+5 9.868839-7 1.83989-10 0.000000+0 0.000000+0 0.000000+04737 6 91
3.388300+5 9.868840-7 1.83989-10 0.000000+0 0.000000+0 0.000000+04737 6 91
-----
48-Cd-106
*****
1.000000-5 6.000000+3      1      3      0      14825 2151
1.000000-5 6.000000+3      1      2      0      04825 2151
-----
48-Cd-108
*****
1.000000-5 6.000000+3      1      3      0      14831 2151
1.000000-5 6.000000+3      1      2      0      04831 2151
-----
48-Cd-110
*****
1.000000-5 7.000000+3      1      3      0      14837 2151
1.000000-5 7.000000+3      1      2      0      04837 2151
-----
48-Cd-111
*****
1.000000-5 2.300000+3      1      3      0      14840 2151
1.000000-5 2.300000+3      1      2      0      04840 2151
-----
48-Cd-112
*****
1.000000-5 1.150000+4      1      3      0      14843 2151
1.000000-5 1.150000+4      1      2      0      04843 2151
-----

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48-Cd-113
*****
1.000000-5 5.000000+3          1          2          0          04846 2151
1.000000-5 1.100000+4          1          2          0          04846 2151
-----

48-Cd-114
*****
1.000000-5 8.000000+3          1          3          0          14849 2151
1.000000-5 8.000000+3          1          2          0          04849 2151
-----

48-Cd-115m
*****
6.000000+4 9.465630-6 8.000000+4 9.557371-7 1.000000+5 2.308270-74853 6 28
6.000000+4 9.465630-6 8.000000+4 9.557370-7 1.000000+5 2.308270-74853 6 28
-----

48-Cd-116
*****
1.000000-5 9.500000+3          1          3          0          14855 2151
1.000000-5 9.500000+3          1          2          0          04855 2151
-----

49-In-113
*****
49-In-115
*****
50-Sn-112
*****
50-Sn-113
*****
0.000000+0 9.556099-7 2.14353-14 1.918100+5 1.218530-6 4.76731-115028 6 22
0.000000+0 9.556100-7 2.14353-14 1.918100+5 1.218530-6 4.76731-115028 6 22
-----
1.560000+5 9.624069-7 1.820000+5 1.223840-6 2.080000+5 1.436140-65028 6 24
1.560000+5 9.624070-7 1.820000+5 1.223840-6 2.080000+5 1.436140-65028 6 24
-----
0.000000+0 2.315400+5 9.632651-7 1.81886-11 0.000000+0 0.000000+05028 6 28
0.000000+0 2.315400+5 9.632650-7 1.81886-11 0.000000+0 0.000000+05028 6 28
-----
1.120000+5 1.638990-6 1.307000+5 9.884139-7 1.493000+5 7.349770-75028 6649
1.120000+5 1.638990-6 1.307000+5 9.884140-7 1.493000+5 7.349770-75028 6649
-----

50-Sn-114
*****
50-Sn-115
*****
-8.000000+0 1.000000+0 1.488000-1 2.818000-2 1.200000-1 0.000000+05034 2151
-8.000000+0 1.000000+0 2.830000-2 2.818000-2 1.200000-1 0.000000+05034 2151
-----

50-Sn-116
*****
50-Sn-117
*****
50-Sn-118
*****
50-Sn-119
*****
50-Sn-120
*****
50-Sn-122
*****
50-Sn-123
*****
50-Sn-124
*****
50-Sn-125
*****
2.772000+4 5.790200+0 2.772210+4 5.790200+0 5.000000+4 5.710300+05064 3 2
2.772000+4 5.700144+0 2.772210+4 5.700138+0 5.000000+4 5.634612+05064 3 2
-----
5.779296+6 2.968810-2 7.000000+6 2.968810-2 8.000000+6 4.122850-15064 6 16
5.779296+6 1.565300+5 7.000000+6 2.968810-2 8.000000+6 4.122850-15064 6 16
-----
2.980000+5 9.913761-7 3.193000+5 6.513250-7 3.405000+5 2.226920-75064 6 24
2.980000+5 9.913760-7 3.193000+5 6.513250-7 3.405000+5 2.226920-75064 6 24
-----

50-Sn-126

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*****
51-Sb-121
*****
51-Sb-123
*****
1.699400-3 1.174500-3 9.025000-5 1.310500-5 9.965401-7 8.173400-85131 4 2
1.699400-3 1.174500-3 9.025000-5 1.310500-5 9.965400-7 8.173400-85131 4 2
-----
51-Sb-124
*****
51-Sb-125
*****
51-Sb-126
*****
1.672470-6 5.28093-10 0.000000+0 0.000000+0 4.935400+5 9.619459-75140 6 41
1.672470-6 5.28093-10 0.000000+0 0.000000+0 4.935400+5 9.619460-75140 6 41
-----
52-Te-120
*****
52-Te-122
*****
52-Te-123
*****
52-Te-124
*****
-3.633000+1 5.000000-1 2.743000-1 2.194000-1 5.490000-2 0.000000+05237 2151
-3.633000+1 5.000000-1 2.248900-1 2.194000-1 5.490000-2 0.000000+05237 2151
-----
52-Te-125
*****
52-Te-126
*****
-1.090000+2 5.000000-1 1.997000-1 1.437000-1 5.600000-2 0.000000+05243 2151
-1.090000+2 5.000000-1 1.997000-2 1.437000-1 5.600000-2 0.000000+05243 2151
-----
52-Te-127m
*****
52-Te-128
*****
52-Te-129m
*****
52-Te-130
*****
52-Te-132
*****
-4.704000+6 -4.704000+6 0 0 1 235261 3103
0.000000+0 0.000000+0 0 0 1 235261 3103
-----
1.066000+6 1.066000+6 0 0 1 215261 3107
0.000000+0 0.000000+0 0 0 1 215261 3107
-----
4.008100+5 1.104580-6 2.41308-10 6.012100+5 9.541041-7 2.04105-105261 6 17
4.008100+5 1.104580-6 2.41308-10 6.012100+5 9.541040-7 2.04105-105261 6 17
-----
1.521500+5 9.590379-7 4.82950-10 2.282200+5 1.194870-6 6.02462-105261 6 91
1.521500+5 9.590380-7 4.82950-10 2.282200+5 1.194870-6 6.02462-105261 6 91
-----
2.787000+5 9.721909-7 2.927000+5 1.692580-6 3.066000+5 2.794120-65261 6849
2.787000+5 9.721910-7 2.927000+5 1.692580-6 3.066000+5 2.794120-65261 6849
-----
53-I -127
*****
1.100000+7 1.060470-3 1.150000+7 9.981469-4 1.200000+7 9.401270-45325 3 63
1.100000+7 1.060470-3 1.150000+7 9.981470-4 1.200000+7 9.401270-45325 3 63
-----
53-I -129
*****
53-I -130
*****
6.220000+4 9.613181-7 1.451000+5 7.852600-7 1.866000+5 7.303480-75334 6 22
6.220000+4 9.613180-7 1.451000+5 7.852600-7 1.866000+5 7.303480-75334 6 22
-----
6.004400+5 1.008290-6 2.53208-15 7.719900+5 9.821809-7 1.43484-145334 6 91
6.004400+5 1.008290-6 2.53208-15 7.719900+5 9.821810-7 1.43484-145334 6 91
-----

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53-I -131
*****
53-I -135
*****
1.400000+7 6.642400-4 1.418100+7 7.731100-4 1.450000+7 9.973201-45349 3103
1.400000+7 6.642400-4 1.418100+7 7.731100-4 1.450000+7 9.973200-45349 3103
-----
54-Xe-123
*****
0.000000+0 0.000000+0 0 0 1 1165422 3 1
0.000000+0 0.000000+0 0 0 2 1435422 3 1
-----
0.000000+0 0.000000+0 0 0 1 1165422 3 2
0.000000+0 0.000000+0 0 0 2 1435422 3 2
-----
-7.964868+6-7.964868+6 0 0 1 5422 3 4 Only in VII.0
-8.279800+6-8.279800+6 0 0 1 625422 3 16
345422 3 16
-----
-1.891841+7-1.891841+7 0 0 1 75422 3 17
-1.889100+7-1.889100+7 0 0 1 55422 3 17
-----
-4.890242+5-4.890242+5 0 0 1 665422 3 22
-5.013600+5-5.013600+5 0 0 1 295422 3 22
-----
-6.457495+6-6.457495+6 0 0 1 595422 3 28
-6.474700+6-6.474700+6 0 0 1 305422 3 28
-----
0.000000+0-9.730000+4 0 0 1 5422 3 41 Only in VII.1
0.000000+0-9.730000+4 0 0 1 1025422 3 51
825422 3 51
-----
0.000000+0-1.805900+5 0 0 1 1015422 3 52
0.000000+0-1.806000+5 0 0 1 765422 3 52
-----
0.000000+0-1.851800+5 0 0 1 1015422 3 53
0.000000+0-1.852000+5 0 0 1 755422 3 53
-----
0.000000+0-2.062400+5 0 0 1 1005422 3 54
0.000000+0-2.063000+5 0 0 1 745422 3 54
-----
0.000000+0-2.519000+5 0 0 1 1005422 3 55
0.000000+0-2.519000+5 0 0 1 735422 3 55
-----
0.000000+0-2.631400+5 0 0 1 1005422 3 56
0.000000+0-2.633000+5 0 0 1 725422 3 56
-----
0.000000+0-3.069900+5 0 0 1 1005422 3 57
0.000000+0-3.070000+5 0 0 1 715422 3 57
-----
0.000000+0-4.374400+5 0 0 1 995422 3 58
0.000000+0-4.374000+5 0 0 1 695422 3 58
-----
0.000000+0-4.424100+5 0 0 1 995422 3 59
0.000000+0-4.424000+5 0 0 1 685422 3 59
-----
0.000000+0-4.669800+5 0 0 1 995422 3 60
0.000000+0-4.669000+5 0 0 1 675422 3 60
-----
0.000000+0-5.183700+5 0 0 1 995422 3 61
0.000000+0-5.183000+5 0 0 1 655422 3 61
-----
0.000000+0-5.675400+5 0 0 1 995422 3 62
0.000000+0-5.856000+5 0 0 1 645422 3 62
-----
0.000000+0-5.856300+5 0 0 1 995422 3 63
0.000000+0-5.967000+5 0 0 1 635422 3 63
-----
0.000000+0-5.966500+5 0 0 1 985422 3 64
0.000000+0-6.111000+5 0 0 1 625422 3 64
-----
0.000000+0-6.110900+5 0 0 1 985422 3 65
0.000000+0-6.620000+5 0 0 1 615422 3 65
-----
0.000000+0-6.141100+5 0 0 1 985422 3 66

```


| | | | | | |
|------------------------|---|---|---|--------------|---------------|
| 0.000000+0-6.938000+5 | 0 | 0 | 1 | 605422 3 66 | |
| 0.000000+0-6.620300+5 | 0 | 0 | 1 | 985422 3 67 | |
| 0.000000+0-7.191000+5 | 0 | 0 | 1 | 595422 3 67 | |
| | | | | 5422 3 68 | Only in VII.1 |
| | | | | 5422 3 69 | Only in VII.1 |
| | | | | 5422 3 70 | Only in VII.1 |
| 0.000000+0-9.918602+4 | 0 | 0 | 1 | 1015422 3 91 | |
| 0.000000+0-7.191000+5 | 0 | 0 | 1 | 595422 3 91 | |
| 1.048287+7 1.048287+7 | 0 | 0 | 1 | 1165422 3102 | |
| 1.047200+7 1.047200+7 | 0 | 0 | 2 | 1435422 3102 | |
| 3.477108+6 3.477108+6 | 0 | 0 | 1 | 1165422 3103 | |
| 3.461200+6 3.461200+6 | 0 | 0 | 2 | 1425422 3103 | |
| | | | | 5422 3104 | Only in VII.0 |
| | | | | 5422 3105 | Only in VII.0 |
| | | | | 5422 3106 | Only in VII.0 |
| 9.802437+6 9.802437+6 | 0 | 0 | 1 | 1165422 3107 | |
| 9.773700+6 9.773700+6 | 0 | 0 | 2 | 1425422 3107 | |
| -1.441148+6-1.441148+6 | 0 | 0 | 1 | 715422 3111 | |
| -1.457900+6-1.457900+6 | 0 | 0 | 1 | 305422 3111 | |
| 0.000000+0 1.218526+2 | 0 | 2 | 0 | 05422 4 2 | |
| 0.000000+0 1.218500+2 | 0 | 2 | 0 | 05422 4 2 | |
| | | | | 5422 4 16 | Only in VII.0 |
| | | | | 5422 4 17 | Only in VII.0 |
| | | | | 5422 4 22 | Only in VII.0 |
| | | | | 5422 4 28 | Only in VII.0 |
| 0.000000+0 1.218526+2 | 0 | 2 | 0 | 05422 4 51 | |
| 0.000000+0 1.218500+2 | 0 | 2 | 0 | 05422 4 51 | |
| 0.000000+0 1.218526+2 | 0 | 2 | 0 | 05422 4 52 | |
| 0.000000+0 1.218500+2 | 0 | 2 | 0 | 05422 4 52 | |
| 0.000000+0 1.218526+2 | 0 | 2 | 0 | 05422 4 53 | |
| 0.000000+0 1.218500+2 | 0 | 2 | 0 | 05422 4 53 | |
| 0.000000+0 1.218526+2 | 0 | 2 | 0 | 05422 4 54 | |
| 0.000000+0 1.218500+2 | 0 | 2 | 0 | 05422 4 54 | |
| 0.000000+0 1.218526+2 | 0 | 2 | 0 | 05422 4 55 | |
| 0.000000+0 1.218500+2 | 0 | 2 | 0 | 05422 4 55 | |
| 0.000000+0 1.218526+2 | 0 | 2 | 0 | 05422 4 56 | |
| 0.000000+0 1.218500+2 | 0 | 2 | 0 | 05422 4 56 | |
| 0.000000+0 1.218526+2 | 0 | 2 | 0 | 05422 4 57 | |
| 0.000000+0 1.218500+2 | 0 | 2 | 0 | 05422 4 57 | |
| 0.000000+0 1.218526+2 | 0 | 2 | 0 | 05422 4 58 | |
| 0.000000+0 1.218500+2 | 0 | 2 | 0 | 05422 4 58 | |
| 0.000000+0 1.218526+2 | 0 | 2 | 0 | 05422 4 59 | |
| 0.000000+0 1.218500+2 | 0 | 2 | 0 | 05422 4 59 | |
| 0.000000+0 1.218526+2 | 0 | 2 | 0 | 05422 4 60 | |
| 0.000000+0 1.218500+2 | 0 | 2 | 0 | 05422 4 60 | |
| 0.000000+0 1.218526+2 | 0 | 2 | 0 | 05422 4 61 | |
| 0.000000+0 1.218500+2 | 0 | 2 | 0 | 05422 4 61 | |
| 0.000000+0 1.218526+2 | 0 | 2 | 0 | 05422 4 62 | |
| 0.000000+0 1.218500+2 | 0 | 2 | 0 | 05422 4 62 | |
| 0.000000+0 1.218526+2 | 0 | 2 | 0 | 05422 4 63 | |
| 0.000000+0 1.218500+2 | 0 | 2 | 0 | 05422 4 63 | |
| 0.000000+0 1.218526+2 | 0 | 2 | 0 | 05422 4 64 | |
| 0.000000+0 1.218500+2 | 0 | 2 | 0 | 05422 4 64 | |

| | | | | | | | | |
|-------------|-------------|---|---|---|---------|---|----|-------------------------|
| 0.000000+0 | 1.218526+2 | 0 | 2 | 0 | 05422 | 4 | 65 | |
| 0.000000+0 | 1.218500+2 | 0 | 2 | 0 | 05422 | 4 | 65 | |
| 0.000000+0 | 1.218526+2 | 0 | 2 | 0 | 05422 | 4 | 66 | |
| 0.000000+0 | 1.218500+2 | 0 | 2 | 0 | 05422 | 4 | 66 | |
| 0.000000+0 | 1.218526+2 | 0 | 2 | 0 | 05422 | 4 | 67 | |
| 0.000000+0 | 1.218500+2 | 0 | 2 | 0 | 05422 | 4 | 67 | |
| | | | | | | | | 5422 4 68 Only in VII.1 |
| | | | | | | | | 5422 4 69 Only in VII.1 |
| | | | | | | | | 5422 4 70 Only in VII.1 |
| | | | | | | | | 5422 4 91 Only in VII.0 |
| | | | | | | | | 5422 5 16 Only in VII.0 |
| | | | | | | | | 5422 5 17 Only in VII.0 |
| | | | | | | | | 5422 5 22 Only in VII.0 |
| | | | | | | | | 5422 5 28 Only in VII.0 |
| | | | | | | | | 5422 5 91 Only in VII.0 |
| | | | | | | | | 5422 6 16 Only in VII.1 |
| | | | | | | | | 5422 6 17 Only in VII.1 |
| | | | | | | | | 5422 6 22 Only in VII.1 |
| | | | | | | | | 5422 6 28 Only in VII.1 |
| | | | | | | | | 5422 6 41 Only in VII.1 |
| | | | | | | | | 5422 6 91 Only in VII.1 |
| | | | | | | | | 5422 6103 Only in VII.1 |
| | | | | | | | | 5422 6107 Only in VII.1 |
| | | | | | | | | 5422 6111 Only in VII.1 |
| 54-Xe-124 | | | | | | | | |
| ***** | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1035425 | 3 | 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 845425 | 3 | 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1035425 | 3 | 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 845425 | 3 | 2 | |
| | | | | | | | | 5425 3 4 Only in VII.0 |
| -1.048287+7 | -1.048287+7 | 0 | 0 | 1 | 495425 | 3 | 16 | |
| -1.047200+7 | -1.047200+7 | 0 | 0 | 1 | 325425 | 3 | 16 | |
| -1.844774+7 | -1.844774+7 | 0 | 0 | 1 | 95425 | 3 | 17 | |
| -1.875100+7 | -1.875100+7 | 0 | 0 | 1 | 65425 | 3 | 17 | |
| -6.804314+5 | -6.804314+5 | 0 | 0 | 1 | 655425 | 3 | 22 | |
| -6.979000+5 | -6.979000+5 | 0 | 0 | 1 | 385425 | 3 | 22 | |
| -7.005761+6 | -7.005761+6 | 0 | 0 | 1 | 575425 | 3 | 28 | |
| -7.010300+6 | -7.010300+6 | 0 | 0 | 1 | 365425 | 3 | 28 | |
| 0.000000+0 | -3.541400+5 | 0 | 0 | 1 | 1005425 | 3 | 51 | |
| 0.000000+0 | -3.541000+5 | 0 | 0 | 1 | 775425 | 3 | 51 | |
| 0.000000+0 | -8.466100+5 | 0 | 0 | 1 | 975425 | 3 | 52 | |
| 0.000000+0 | -8.466000+5 | 0 | 0 | 1 | 705425 | 3 | 52 | |
| 0.000000+0 | -8.790300+5 | 0 | 0 | 1 | 975425 | 3 | 53 | |
| 0.000000+0 | -8.790000+5 | 0 | 0 | 1 | 685425 | 3 | 53 | |
| 0.000000+0 | -1.248040+6 | 0 | 0 | 1 | 955425 | 3 | 54 | |
| 0.000000+0 | -1.248000+6 | 0 | 0 | 1 | 665425 | 3 | 54 | |
| 0.000000+0 | -1.268950+6 | 0 | 0 | 1 | 955425 | 3 | 55 | |
| 0.000000+0 | -1.268900+6 | 0 | 0 | 1 | 655425 | 3 | 55 | |
| 0.000000+0 | -1.438050+6 | 0 | 0 | 1 | 945425 | 3 | 56 | |
| 0.000000+0 | -1.438100+6 | 0 | 0 | 1 | 645425 | 3 | 56 | |
| 0.000000+0 | -1.548780+6 | 0 | 0 | 1 | 945425 | 3 | 57 | |
| 0.000000+0 | -1.548800+6 | 0 | 0 | 1 | 635425 | 3 | 57 | |
| 0.000000+0 | -1.628690+6 | 0 | 0 | 1 | 935425 | 3 | 58 | |
| 0.000000+0 | -1.628700+6 | 0 | 0 | 1 | 625425 | 3 | 58 | |
| 0.000000+0 | -1.690020+6 | 0 | 0 | 1 | 935425 | 3 | 59 | |
| 0.000000+0 | -1.690000+6 | 0 | 0 | 1 | 615425 | 3 | 59 | |

| | | | | | |
|-----------------------|---|---|---|--------------|---------------|
| 0.000000+0-1.837330+6 | 0 | 0 | 1 | 925425 3 60 | |
| 0.000000+0-1.837300+6 | 0 | 0 | 1 | 605425 3 60 | |
| 0.000000+0-1.978590+6 | 0 | 0 | 1 | 925425 3 61 | |
| 0.000000+0-1.978600+6 | 0 | 0 | 1 | 595425 3 61 | |
| 0.000000+0-2.144170+6 | 0 | 0 | 1 | 915425 3 62 | |
| 0.000000+0-2.144200+6 | 0 | 0 | 1 | 585425 3 62 | |
| 0.000000+0-2.205470+6 | 0 | 0 | 1 | 905425 3 63 | |
| 0.000000+0-2.205500+6 | 0 | 0 | 1 | 575425 3 63 | |
| | | | | 5425 3 64 | Only in VII.1 |
| | | | | 5425 3 65 | Only in VII.1 |
| | | | | 5425 3 66 | Only in VII.1 |
| | | | | 5425 3 67 | Only in VII.1 |
| | | | | 5425 3 68 | Only in VII.1 |
| | | | | 5425 3 69 | Only in VII.1 |
| | | | | 5425 3 70 | Only in VII.1 |
| 0.000000+0-3.967701+5 | 0 | 0 | 1 | 995425 3 91 | |
| 0.000000+0-2.205500+6 | 0 | 0 | 1 | 575425 3 91 | |
| 7.603278+6 7.603278+6 | 0 | 0 | 1 | 1035425 3102 | |
| 7.603600+6 7.603600+6 | 0 | 0 | 1 | 845425 3102 | |
| 4.872037+5 4.872037+5 | 0 | 0 | 1 | 1165425 3103 | |
| 6.285160+5 6.285160+5 | 0 | 0 | 1 | 625425 3103 | |
| | | | | 5425 3104 | Only in VII.0 |
| | | | | 5425 3105 | Only in VII.0 |
| | | | | 5425 3106 | Only in VII.0 |
| 6.537449+6 6.537449+6 | 0 | 0 | 1 | 1165425 3107 | |
| 6.538700+6 6.538700+6 | 0 | 0 | 1 | 665425 3107 | |
| | | | | 5425 3111 | Only in VII.0 |
| 0.000000+0 1.228415+2 | 0 | 2 | 0 | 05425 4 2 | |
| 0.000000+0 1.228400+2 | 0 | 2 | 0 | 05425 4 2 | |
| | | | | 5425 4 16 | Only in VII.0 |
| | | | | 5425 4 17 | Only in VII.0 |
| | | | | 5425 4 22 | Only in VII.0 |
| | | | | 5425 4 28 | Only in VII.0 |
| 0.000000+0 1.228415+2 | 0 | 2 | 0 | 05425 4 51 | |
| 0.000000+0 1.228400+2 | 0 | 2 | 0 | 05425 4 51 | |
| 0.000000+0 1.228415+2 | 0 | 2 | 0 | 05425 4 52 | |
| 0.000000+0 1.228400+2 | 0 | 2 | 0 | 05425 4 52 | |
| 0.000000+0 1.228415+2 | 0 | 2 | 0 | 05425 4 53 | |
| 0.000000+0 1.228400+2 | 0 | 2 | 0 | 05425 4 53 | |
| 0.000000+0 1.228415+2 | 0 | 2 | 0 | 05425 4 54 | |
| 0.000000+0 1.228400+2 | 0 | 2 | 0 | 05425 4 54 | |
| 0.000000+0 1.228415+2 | 0 | 2 | 0 | 05425 4 55 | |
| 0.000000+0 1.228400+2 | 0 | 2 | 0 | 05425 4 55 | |
| 0.000000+0 1.228415+2 | 0 | 2 | 0 | 05425 4 56 | |
| 0.000000+0 1.228400+2 | 0 | 2 | 0 | 05425 4 56 | |
| 0.000000+0 1.228415+2 | 0 | 2 | 0 | 05425 4 57 | |
| 0.000000+0 1.228400+2 | 0 | 2 | 0 | 05425 4 57 | |
| 0.000000+0 1.228415+2 | 0 | 2 | 0 | 05425 4 58 | |
| 0.000000+0 1.228400+2 | 0 | 2 | 0 | 05425 4 58 | |
| 0.000000+0 1.228415+2 | 0 | 2 | 0 | 05425 4 59 | |
| 0.000000+0 1.228400+2 | 0 | 2 | 0 | 05425 4 59 | |
| 0.000000+0 1.228415+2 | 0 | 2 | 0 | 05425 4 60 | |
| 0.000000+0 1.228400+2 | 0 | 2 | 0 | 05425 4 60 | |
| 0.000000+0 1.228415+2 | 0 | 2 | 0 | 05425 4 61 | |
| 0.000000+0 1.228400+2 | 0 | 2 | 0 | 05425 4 61 | |

| | | | | | | | |
|------------|------------|---|---|---|-------|---|----|
| 0.000000+0 | 1.228415+2 | 0 | 2 | 0 | 05425 | 4 | 62 |
| 0.000000+0 | 1.228400+2 | 0 | 2 | 0 | 05425 | 4 | 62 |

| | | | | | | | |
|------------|------------|---|---|---|-------|---|----|
| 0.000000+0 | 1.228415+2 | 0 | 2 | 0 | 05425 | 4 | 63 |
| 0.000000+0 | 1.228400+2 | 0 | 2 | 0 | 05425 | 4 | 63 |

5425 4 64 Only in VII.1

5425 4 65 Only in VII.1

5425 4 66 Only in VII.1

5425 4 67 Only in VII.1

5425 4 68 Only in VII.1

5425 4 69 Only in VII.1

5425 4 70 Only in VII.1

5425 4 91 Only in VII.0

5425 5 16 Only in VII.0

5425 5 17 Only in VII.0

5425 5 22 Only in VII.0

5425 5 28 Only in VII.0

5425 5 91 Only in VII.0

5425 6 16 Only in VII.1

5425 6 17 Only in VII.1

5425 6 22 Only in VII.1

5425 6 28 Only in VII.1

5425 6 91 Only in VII.1

5425 6103 Only in VII.1

5425 6107 Only in VII.1

54-Xe-126

| | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------|---|---|
| 9.797740-4 | 9.794621-4 | 3.059650-5 | 3.432840-6 | 1.104380-7 | 1.640590-9 | 5431 | 4 | 2 |
| 9.797740-4 | 9.794620-4 | 3.059650-5 | 3.432840-6 | 1.104380-7 | 1.640590-9 | 5431 | 4 | 2 |

54-Xe-128

54-Xe-129

54-Xe-130

| | | | | | | | | |
|-------------|-------------|--|--|--|--|------|---|---|
| -9.645501-7 | -1.118900-6 | | | | | 5443 | 4 | 2 |
| -9.645500-7 | -1.118900-6 | | | | | 5443 | 4 | 2 |

54-Xe-131

| | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------|---|----|
| 4.578500+5 | 9.976030-7 | 8.76563-10 | 6.867700+5 | 9.921361-7 | 9.12219-10 | 5446 | 6 | 24 |
| 4.578500+5 | 9.976030-7 | 8.76563-10 | 6.867700+5 | 9.921360-7 | 9.12219-10 | 5446 | 6 | 24 |

54-Xe-132

54-Xe-133

54-Xe-134

| | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------|---|----|
| 1.075000+7 | 9.935501-4 | 1.100000+7 | 9.273100-4 | 1.150000+7 | 8.144600-4 | 5455 | 3 | 61 |
| 1.075000+7 | 9.935500-4 | 1.100000+7 | 9.273100-4 | 1.150000+7 | 8.144600-4 | 5455 | 3 | 61 |

54-Xe-135

54-Xe-136

55-Cs-133

| | | | | | | |
|------------|------------|---|---|---|-------|------|
| 1.000000-5 | 4.000000+3 | 1 | 2 | 0 | 05525 | 2151 |
| 1.000000-5 | 3.989300+3 | 1 | 2 | 0 | 05525 | 2151 |

55-Cs-134

55-Cs-135

55-Cs-136

55-Cs-137

56-Ba-130

56-Ba-132

56-Ba-133

-9.831761-4 0.000000+0 5634 4 51
-9.831760-4 0.000000+0 5634 4 51

5.444400+5 9.815529-7 2.03305-10 8.166700+5 4.819580-7 1.29712-105634 6 41
5.444400+5 9.815530-7 2.03305-10 8.166700+5 4.819580-7 1.29712-105634 6 41

4.971800+5 9.789539-7 5.800500+5 1.498750-6 6.629100+5 2.041350-65634 6 91
4.971800+5 9.789540-7 5.800500+5 1.498750-6 6.629100+5 2.041350-65634 6 91

56-Ba-134

56-Ba-135

56-Ba-136

56-Ba-137

8.485280+6 1.024070-3 9.000000+6 1.030470-3 1.000000+7 9.989931-45646 3102
8.485280+6 1.024070-3 9.000000+6 1.030470-3 1.000000+7 9.989930-45646 3102

56-Ba-138

56-Ba-140

57-La-138

57-La-139

1.450000+7 9.960500-4 1.475000+7 9.932599-4 1.500000+7 9.904701-45728 3102
1.450000+7 9.960500-4 1.475000+7 9.932600-4 1.500000+7 9.904700-45728 3102

6.503900-4 9.969299-4 6.318900-5 9.014300-6 7.826100-7 7.331300-85728 4 2
6.503900-4 9.969300-4 6.318900-5 9.014300-6 7.826100-7 7.331300-85728 4 2

57-La-140

0.000000+0 8.793070-6 1.257400+5 2.251900-6 2.514900+5 9.708471-75731 6 22
0.000000+0 8.793070-6 1.257400+5 2.251900-6 2.514900+5 9.708470-75731 6 22

58-Ce-136

1.381000+5 9.997379-7 1.496000+5 1.390230-6 1.611000+5 1.506460-65825 6 22
1.381000+5 9.997380-7 1.496000+5 1.390230-6 1.611000+5 1.506460-65825 6 22

58-Ce-138

-1.950180-6 9.758051-7 4.866210-6 6.953170-6 1.012650-5 1.208540-55831 4 51
-1.950180-6 9.758050-7 4.866210-6 6.953170-6 1.012650-5 1.208540-55831 4 51

4.630460+6 9.749619-7 2.045380-9 4.815680+6 9.996750-7 2.801350-95831 6 28
4.630460+6 9.749620-7 2.045380-9 4.815680+6 9.996750-7 2.801350-95831 6 28

6.381600+5 1.198730-6 7.445200+5 9.779779-7 8.508800+5 7.797550-75831 6649
6.381600+5 1.198730-6 7.445200+5 9.779780-7 8.508800+5 7.797550-75831 6649

58-Ce-139

6.262330-3 1.963680-3 5.131870-3 2.447670-3 9.897019-4 4.556340-45834 4 55
6.262330-3 1.963680-3 5.131870-3 2.447670-3 9.897020-4 4.556340-45834 4 55

6.263150-3 1.963700-3 5.132310-3 2.448080-3 9.896239-4 4.555990-45834 4 56
6.263150-3 1.963700-3 5.132310-3 2.448080-3 9.896240-4 4.555990-45834 4 56

7.397900+5 1.960720-7 9.863800+5 9.698661-7 1.232980+6 7.660690-75834 6 16
7.397900+5 1.960720-7 9.863800+5 9.698660-7 1.232980+6 7.660690-75834 6 16

1.097000+5 2.235010-6 1.280000+5 9.777521-7 1.462000+5 7.189340-75834 6 28
1.097000+5 2.235010-6 1.280000+5 9.777520-7 1.462000+5 7.189340-75834 6 28

0.000000+0 9.724901-7-6.29609-15 7.716000+4 2.552690-6 3.48698-145834 6 91
0.000000+0 9.724900-7-6.29609-15 7.716000+4 2.552690-6 3.48698-145834 6 91

2.571000+5 9.632751-7 2.769000+5 7.239150-7 2.966000+5 5.127830-75834 6649

2.571000+5 9.632750-7 2.769000+5 7.239150-7 2.966000+5 5.127830-75834 6649

58-Ce-140

0.000000+0-3.467580-4 0.000000+0-2.728410-4 0.000000+0-9.874479-75837 4 54
0.000000+0-3.467580-4 0.000000+0-2.728410-4 0.000000+0-9.874480-75837 4 54

0.000000+0-2.620740-3 0.000000+0-2.434110-3 0.000000+0-9.838321-45837 4 64
0.000000+0-2.620740-3 0.000000+0-2.434110-3 0.000000+0-9.838320-45837 4 64

58-Ce-141

3.350000+2 3.000000+0 1.082857+0 9.828570-1 1.000000-1 0.000000+05840 2151
3.350000+2 3.000000+0 1.082857-1 9.828570-1 1.000000-1 0.000000+05840 2151

58-Ce-142

58-Ce-143

1.116000+5 9.947699-7 1.302000+5 4.184300-7 1.488000+5 1.838510-75846 6 17
1.116000+5 9.947700-7 1.302000+5 4.184300-7 1.488000+5 1.838510-75846 6 17

3.706700+5 9.943529-7-6.41340-15 4.324500+5 7.258800-7 6.80303-165846 6 91
3.706700+5 9.943530-7-6.41340-15 4.324500+5 7.258800-7 6.80303-165846 6 91

58-Ce-144

59-Pr-141

59-Pr-142

59-Pr-143

60-Nd-142

2.524000+5 1.119510-6 2.692000+5 9.952799-7 2.861000+5 8.584830-76025 6 28
2.524000+5 1.119510-6 2.692000+5 9.952800-7 2.861000+5 8.584830-76025 6 28

5.420500+5 9.837599-7 1.47261-14 6.022800+5 9.721490-7 1.09859-156025 6 91
5.420500+5 9.837600-7 1.47261-14 6.022800+5 9.721490-7 1.09859-156025 6 91

60-Nd-143

4.025000+5 1.764290-6 4.217000+5 1.285330-6 4.409000+5 9.555461-76028 6 24
4.025000+5 1.764290-6 4.217000+5 1.285330-6 4.409000+5 9.555460-76028 6 24

4.955900+5 9.764721-7-7.28759-15 5.575400+5 7.706030-7-1.47853-146028 6 91
4.955900+5 9.764720-7-7.28759-15 5.575400+5 7.706030-7-1.47853-146028 6 91

60-Nd-144

9.830000+4 1.169130-6 1.147000+5 9.809841-7 1.311000+5 9.029900-76031 6 16
9.830000+4 1.169130-6 1.147000+5 9.809840-7 1.311000+5 9.029900-76031 6 16

5.341900+5 1.096380-6 5.90557-15 5.935400+5 9.928279-7-2.91084-156031 6 91
5.341900+5 1.096380-6 5.90557-15 5.935400+5 9.928280-7-2.91084-156031 6 91

60-Nd-145

1.000000-5 3.180000+3 1 2 0 06034 2151
1.000000-5 3.978500+3 1 2 0 06034 2151

8.670000+4 1.255370-6 1.011000+5 9.997181-7 1.156000+5 9.244610-76034 6 28
8.670000+4 1.255370-6 1.011000+5 9.997180-7 1.156000+5 9.244610-76034 6 28

60-Nd-146

5.164600+6 9.600529-7 1.192980-7 1.426010-8 5.304190+6 5.431390-76037 6649
5.164600+6 9.600530-7 1.192980-7 1.426010-8 5.304190+6 5.431390-76037 6649

60-Nd-147

1.590000+5 6.903340-7 1.767000+5 9.769331-7 1.943000+5 1.334220-66040 6 24
1.590000+5 6.903340-7 1.767000+5 9.769330-7 1.943000+5 1.334220-66040 6 24

| | | | | | | | |
|-------------|------------|-------------|-------------|------------|----------------|------|------|
| 1.934300+5 | 9.956231-7 | 2.579000+5 | 4.762690-7 | 3.223800+5 | 9.574110-76040 | 6 | 91 |
| 1.934300+5 | 9.956230-7 | 2.579000+5 | 4.762690-7 | 3.223800+5 | 9.574110-76040 | 6 | 91 |
| ----- | | | | | | | |
| 60-Nd-148 | | | | | | | |
| ***** | | | | | | | |
| 0.000000+0 | 0.000000+0 | 2.436600+5 | 9.670611-7 | 1.69996-15 | 0.000000+06043 | 6 | 28 |
| 0.000000+0 | 0.000000+0 | 2.436600+5 | 9.670610-7 | 1.69996-15 | 0.000000+06043 | 6 | 28 |
| ----- | | | | | | | |
| 60-Nd-150 | | | | | | | |
| ***** | | | | | | | |
| 3.760000+4 | 2.151810-6 | 4.180000+4 | 9.814599-7 | 4.590000+4 | 6.656880-86049 | 6 | 91 |
| 3.760000+4 | 2.151810-6 | 4.180000+4 | 9.814600-7 | 4.590000+4 | 6.656880-86049 | 6 | 91 |
| ----- | | | | | | | |
| 61-Pm-147 | | | | | | | |
| ***** | | | | | | | |
| 1.400000+7 | 9.981249-4 | 1.401780+7 | 1.013990-3 | 1.450000+7 | 1.534330-36149 | 3104 | |
| 1.400000+7 | 9.981250-4 | 1.401780+7 | 1.013990-3 | 1.450000+7 | 1.534330-36149 | 3104 | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 1.250000+5 | 6.941960-7 | 2.500000+5 | 9.796699-76149 | 5 | 17 |
| 0.000000+0 | 0.000000+0 | 1.250000+5 | 6.941960-7 | 2.500000+5 | 9.796700-76149 | 5 | 17 |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 1.250000+5 | 1.109710-6 | 2.500000+5 | 9.825191-76149 | 5 | 28 |
| 0.000000+0 | 0.000000+0 | 1.250000+5 | 1.109710-6 | 2.500000+5 | 9.825190-76149 | 5 | 28 |
| ----- | | | | | | | |
| 61-Pm-148 | | | | | | | |
| ***** | | | | | | | |
| 2.614140-1 | 1.039110-1 | -2.615020-3 | 1.228630-3 | 2.107490-7 | 9.610141-76152 | 4 | 2 |
| 2.614140-1 | 1.039110-1 | -2.615020-3 | 1.228630-3 | 2.107490-7 | 9.610140-76152 | 4 | 2 |
| ----- | | | | | | | |
| 61-Pm-148m | | | | | | | |
| ***** | | | | | | | |
| 61-Pm-149 | | | | | | | |
| ***** | | | | | | | |
| 3.750000+5 | 1.226010-6 | 5.000000+5 | 9.639421-7 | 6.250000+5 | 6.479650-76155 | 5 | 22 |
| 3.750000+5 | 1.226010-6 | 5.000000+5 | 9.639420-7 | 6.250000+5 | 6.479650-76155 | 5 | 22 |
| ----- | | | | | | | |
| 61-Pm-151 | | | | | | | |
| ***** | | | | | | | |
| 9.760000+4 | 8.708460-8 | 1.058000+5 | 7.305680-7 | 1.139000+5 | 9.586749-76161 | 6 | 22 |
| 9.760000+4 | 8.708460-8 | 1.058000+5 | 7.305680-7 | 1.139000+5 | 9.586750-76161 | 6 | 22 |
| ----- | | | | | | | |
| 3.121300+5 | 1.785190-6 | 1.066960-9 | 4.682000+5 | 9.803711-7 | 5.53040-106161 | 6 | 28 |
| 3.121300+5 | 1.785190-6 | 1.066960-9 | 4.682000+5 | 9.803710-7 | 5.53040-106161 | 6 | 28 |
| ----- | | | | | | | |
| 62-Sm-144 | | | | | | | |
| ***** | | | | | | | |
| 9.326400+5 | 1.019010-6 | 1.98448-14 | 1.017420+6 | 9.668159-7 | 2.62158-146225 | 6 | 91 |
| 9.326400+5 | 1.019010-6 | 1.98448-14 | 1.017420+6 | 9.668160-7 | 2.62158-146225 | 6 | 91 |
| ----- | | | | | | | |
| 62-Sm-147 | | | | | | | |
| ***** | | | | | | | |
| 2.890000+4 | 2.436680-6 | 3.850000+4 | 9.675711-7 | 4.810000+4 | 6.937650-76234 | 6 | 91 |
| 2.890000+4 | 2.436680-6 | 3.850000+4 | 9.675710-7 | 4.810000+4 | 6.937650-76234 | 6 | 91 |
| ----- | | | | | | | |
| 62-Sm-148 | | | | | | | |
| ***** | | | | | | | |
| -4.355610-4 | 1.254870-3 | 1.365730-3 | -9.981419-4 | | | 6237 | 4 58 |
| -4.355610-4 | 1.254870-3 | 1.365730-3 | -9.981420-4 | | | 6237 | 4 58 |
| ----- | | | | | | | |
| 8.420000+4 | 9.921411-7 | 1.123000+5 | 2.335650-7 | 1.404000+5 | 1.816470-76237 | 6 | 16 |
| 8.420000+4 | 9.921410-7 | 1.123000+5 | 2.335650-7 | 1.404000+5 | 1.816470-76237 | 6 | 16 |
| ----- | | | | | | | |
| 2.783000+5 | 5.799850-6 | 3.092000+5 | 1.121050-6 | 3.401000+5 | 9.865259-76237 | 6 | 24 |
| 2.783000+5 | 5.799850-6 | 3.092000+5 | 1.121050-6 | 3.401000+5 | 9.865260-76237 | 6 | 24 |
| ----- | | | | | | | |
| 2.399000+5 | 9.893701-7 | 2.665000+5 | 7.521800-7 | 2.932000+5 | 5.615800-76237 | 6 | 91 |
| 2.399000+5 | 9.893700-7 | 2.665000+5 | 7.521800-7 | 2.932000+5 | 5.615800-76237 | 6 | 91 |
| ----- | | | | | | | |
| 62-Sm-149 | | | | | | | |
| ***** | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0.000000+0 | 0.000000+0 | 4.489000+5 | 9.801551-76240 | 6 | 28 |
| 0.000000+0 | 0.000000+0 | 0.000000+0 | 0.000000+0 | 4.489000+5 | 9.801550-76240 | 6 | 28 |
| ----- | | | | | | | |
| 5.340000+4 | 1.096830-5 | 7.120000+4 | 3.664950-6 | 8.900000+4 | 9.671641-76240 | 6 | 41 |
| 5.340000+4 | 1.096830-5 | 7.120000+4 | 3.664950-6 | 8.900000+4 | 9.671640-76240 | 6 | 41 |

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1.716000+5 1.810990-6 1.859000+5 1.543600-6 2.145000+5 9.899341-76240 6 91
1.716000+5 1.810990-6 1.859000+5 1.543600-6 2.145000+5 9.899340-76240 6 91
-----
0.000000+0 5.29382-10 2.159500+5 7.557770-7 4.319000+5 9.618579-76240 6649
0.000000+0 5.29382-10 2.159500+5 7.557770-7 4.319000+5 9.618580-76240 6649
-----
62-Sm-150
*****
1.095000+5 9.737749-7 1.217000+5 9.680350-7 1.338000+5 9.527930-76243 6 24
1.095000+5 9.737750-7 1.217000+5 9.680350-7 1.338000+5 9.527930-76243 6 24
-----
62-Sm-151
*****
62-Sm-152
*****
62-Sm-153
*****
1.752000+5 1.950450-6 1.898000+5 1.437260-6 2.044000+5 9.934211-76252 6649
1.752000+5 1.950450-6 1.898000+5 1.437260-6 2.044000+5 9.934210-76252 6649
-----
62-Sm-154
*****
3.917340-2-1.222060-5 6.054040-3-9.783501-4-1.690800-3 0.000000+06255 4 51
3.917340-2-1.222060-5 6.054040-3-9.783500-4-1.690800-3 0.000000+06255 4 51
-----
4.903300+5 9.790421-7-2.03340-14 0.000000+0 0.000000+0 0.000000+06255 6 28
4.903300+5 9.790420-7-2.03340-14 0.000000+0 0.000000+0 0.000000+06255 6 28
-----
63-Eu-151
*****
63-Eu-152
*****
3.000000+4 4.485900+0 0.000000+0 9.868901-4 1.600000-1 0.000000+06328 2151
3.000000+4 4.485900+0 0.000000+0 9.868900-4 1.600000-1 0.000000+06328 2151
-----
0.000000+0 0.000000+0 1.250000+5 8.612070-7 2.500000+5 9.608571-76328 5 22
0.000000+0 0.000000+0 1.250000+5 8.612070-7 2.500000+5 9.608570-76328 5 22
-----
63-Eu-153
*****
1.000000-5 9.800000+1 1 2 0 06331 2151
1.000000-5 9.780000+1 1 2 0 06331 2151
-----
63-Eu-154
*****
63-Eu-155
*****
63-Eu-156
*****
63-Eu-157
*****
0.000000+0 3.928740-7 1.88371-15 1.979100+5 9.999439-7 7.67853-116343 6 17
0.000000+0 3.928740-7 1.88371-15 1.979100+5 9.999440-7 7.67853-116343 6 17
-----
9.616861-7 1.12027-12 0.000000+0 0.000000+0 0.000000+0 0.000000+06343 6 22
9.616860-7 1.12027-12 0.000000+0 0.000000+0 0.000000+0 0.000000+06343 6 22
-----
3.388400+5 9.788751-7 4.93520-15 4.235500+5 1.030820-6 2.59098-146343 6 91
3.388400+5 9.788750-7 4.93520-15 4.235500+5 1.030820-6 2.59098-146343 6 91
-----
64-Gd-152
*****
-7.876750-3-9.995539-4 1.040880-2 2.924590-3 7.830270-3 3.961980-36425 4 54
-7.876750-3-9.995540-4 1.040880-2 2.924590-3 7.830270-3 3.961980-36425 4 54
-----
64-Gd-153
*****
4.873700+5 9.887279-7 9.00119-10 7.310500+5 3.597220-7 3.75925-106428 6 24
4.873700+5 9.887280-7 9.00119-10 7.310500+5 3.597220-7 3.75925-106428 6 24
-----
2.811750+6 9.716611-7 5.69256-14 3.124170+6 1.488850-6-1.75920-146428 6 41
2.811750+6 9.716610-7 5.69256-14 3.124170+6 1.488850-6-1.75920-146428 6 41
-----
64-Gd-154

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*****
2.208000+5 9.884239-7 2.392000+5 5.819140-7 2.576000+5 2.719030-76431 6649
2.208000+5 9.884240-7 2.392000+5 5.819140-7 2.576000+5 2.719030-76431 6649
-----
64-Gd-155
*****
7.800000+6 9.573019-7 8.000000+6 7.043740-7 8.500000+6 3.348030-76434 3 65
7.800000+6 9.573020-7 8.000000+6 7.043740-7 8.500000+6 3.348030-76434 3 65
-----
0.000000+0 1.781480-7 2.81344-16 3.128500+5 9.964861-7 2.01016-106434 6 17
0.000000+0 1.781480-7 2.81344-16 3.128500+5 9.964860-7 2.01016-106434 6 17
-----
3.010000+4 2.194460-6 4.010000+4 1.167070-6 5.010000+4 9.776099-76434 6 91
3.010000+4 2.194460-6 4.010000+4 1.167070-6 5.010000+4 9.776100-76434 6 91
-----
64-Gd-156
*****
2.797430-1 6.646970-2 2.183240-2-2.341120-2-9.774721-4-2.186820-26437 4 52
2.797430-1 6.646970-2 2.183240-2-2.341120-2-9.774720-4-2.186820-26437 4 52
-----
0.000000+0 0.000000+0 2.886200+5 9.770509-7 2.72855-11 0.000000+06437 6 22
0.000000+0 0.000000+0 2.886200+5 9.770510-7 2.72855-11 0.000000+06437 6 22
-----
6.299500+5 1.010650-6-1.20581-14 7.349400+5 9.655849-7-9.68713-156437 6 91
6.299500+5 1.010650-6-1.20581-14 7.349400+5 9.655850-7-9.68713-156437 6 91
-----
64-Gd-157
*****
3.140000-2 2.000000+0 4.374700-4 1.060000-1 0.000000+0 0.000000+06440 2151
3.140000-2 2.000000+0 4.704000-4 1.060000-1 0.000000+0 0.000000+06440 2151
-----
1.000000+1-1.207630-8 1.258925+1-2.217340-8 1.584893+1-9.657271-76440 3 2
1.000000+1-1.207630-8 1.258925+1-2.217340-8 1.584893+1-9.657270-76440 3 2
-----
1.000000+1 1.207630-8 1.258925+1 2.217340-8 1.584893+1 9.657271-76440 3107
1.000000+1 1.207630-8 1.258925+1 2.217340-8 1.584893+1 9.657270-76440 3107
-----
2.634620-3 9.927161-4 6440 4 51
2.634620-3 9.927160-4 6440 4 51
-----
2.481000+5 9.532600-7 2.605000+5 9.563699-7 2.729000+5 9.018220-76440 6 22
2.481000+5 9.532600-7 2.605000+5 9.563700-7 2.729000+5 9.018220-76440 6 22
-----
2.089700+5 8.995850-7 2.52282-14 3.134600+5 9.966679-7 7.84240-156440 6 91
2.089700+5 8.995850-7 2.52282-14 3.134600+5 9.966680-7 7.84240-156440 6 91
-----
64-Gd-158
*****
0.000000+0 1.375310-7-6.82073-16 2.919600+5 9.871781-7 2.53966-116443 6 24
0.000000+0 1.375310-7-6.82073-16 2.919600+5 9.871780-7 2.53966-116443 6 24
-----
4.148340+6 9.867661-7 4.056630-9 4.307890+6 1.114760-6 5.234410-96443 6649
4.148340+6 9.867660-7 4.056630-9 4.307890+6 1.114760-6 5.234410-96443 6649
-----
64-Gd-160
*****
2.501840+6 1.014900-6-1.15336-14 2.814570+6 9.656829-7 1.24388-146449 6 41
2.501840+6 1.014900-6-1.15336-14 2.814570+6 9.656830-7 1.24388-146449 6 41
-----
0.000000+0 9.829261-7-5.00844-15 7.852000+4 3.309290-6 6.88051-146449 6 91
0.000000+0 9.829260-7-5.00844-15 7.852000+4 3.309290-6 6.88051-146449 6 91
-----
65-Tb-159
*****
65-Tb-160
*****
1.111000+5 9.710041-7 1.204000+5 1.115700-6 1.481000+5 1.119500-66528 6 22
1.111000+5 9.710040-7 1.204000+5 1.115700-6 1.481000+5 1.119500-66528 6 22
-----
66-Dy-156
*****
4.466700+5 9.593369-7 9.06644-12 0.000000+0 0.000000+0 0.000000+06625 6 28
4.466700+5 9.593370-7 9.06644-12 0.000000+0 0.000000+0 0.000000+06625 6 28
-----
66-Dy-158

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*****
9.887361-4 0.000000+0 6631 4 58
9.887360-4 0.000000+0 6631 4 58
-----
66-Dy-160
*****
5.554200+5 1.004710-6 2.39768-15 6.479900+5 9.620099-7-2.03041-146637 6 91
5.554200+5 1.004710-6 2.39768-15 6.479900+5 9.620100-7-2.03041-146637 6 91
-----
66-Dy-161
*****
66-Dy-162
*****
3.883300+5 9.572771-7-1.67215-14 4.530600+5 6.368730-7 1.70717-146643 6 91
3.883300+5 9.572770-7-1.67215-14 4.530600+5 6.368730-7 1.70717-146643 6 91
-----
0.000000+0 4.072990-7 2.066600+5 9.390560-7 4.133200+5 9.901941-76643 6649
0.000000+0 4.072990-7 2.066600+5 9.390560-7 4.133200+5 9.901940-76643 6649
-----
66-Dy-163
*****
2.969800+5 1.351860-6 4.30625-11 4.454700+5 9.733139-7 4.55079-116646 6 22
2.969800+5 1.351860-6 4.30625-11 4.454700+5 9.733140-7 4.55079-116646 6 22
-----
0.000000+0 4.219390-8 2.197000+5 6.891320-7 4.394000+5 9.608131-76646 6 91
0.000000+0 4.219390-8 2.197000+5 6.891320-7 4.394000+5 9.608130-76646 6 91
-----
66-Dy-164
*****
2.077060-1 1.112350-1 3.778870-2 1.241820-2 3.120290-2-9.935719-46649 4 52
2.077060-1 1.112350-1 3.778870-2 1.241820-2 3.120290-2-9.935720-46649 4 52
-----
9.826639-4-7.577080-4 6649 4 65
9.826640-4-7.577080-4 6649 4 65
-----
4.266560-8 5.071220-9 5.158900+6 9.720829-7 7.208380-8 8.717750-96649 6 28
4.266560-8 5.071220-9 5.158900+6 9.720830-7 7.208380-8 8.717750-96649 6 28
-----
1.332800+6 1.108250-6 1.402950+6 1.087710-6 1.473090+6 9.750401-76649 6 91
1.332800+6 1.108250-6 1.402950+6 1.087710-6 1.473090+6 9.750400-76649 6 91
-----
5.024340+6 8.251370-7 1.298440-7 1.551920-8 5.167890+6 9.578119-76649 6649
5.024340+6 8.251370-7 1.298440-7 1.551920-8 5.167890+6 9.578120-76649 6649
-----
67-Ho-165
*****
4.000000+6 2.519800-3 4.500000+6 1.507400-3 5.000000+6 9.903701-46725 3 63
4.000000+6 2.519800-3 4.500000+6 1.507400-3 5.000000+6 9.903700-46725 3 63
-----
67-Ho-166m
*****
3.298000+5 1.524700-6 3.448000+5 9.997819-7 3.598000+5 6.569480-76729 6 24
3.298000+5 1.524700-6 3.448000+5 9.997820-7 3.598000+5 6.569480-76729 6 24
-----
4.947600+5 9.738091-7 7.17351-12 7.421400+5 4.006520-7 5.37691-126729 6 41
4.947600+5 9.738090-7 7.17351-12 7.421400+5 4.006520-7 5.37691-126729 6 41
-----
68-Er-162
*****
68-Er-164
*****
68-Er-166
*****
2.500000+6 1.448530-3 3.000000+6 9.930501-4 4.000000+6 5.475800-46837 3 74
2.500000+6 1.448530-3 3.000000+6 9.930500-4 4.000000+6 5.475800-46837 3 74
-----
68-Er-167
*****
68-Er-168
*****
68-Er-170
*****
6.102360+2 9.730589-7 9.671590+2 1.530850-6 1.532840+3 2.398020-66849 5 22
6.102360+2 9.730590-7 9.671590+2 1.530850-6 1.532840+3 2.398020-66849 5 22
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|------------------------|------------|---|---|---|---------|------|----|------|----------|
| 71-Lu-175 | | | | | | | | | |
| ***** | | | | | | | | | |
| 71-Lu-176 | | | | | | | | | |
| ***** | | | | | | | | | |
| 72-Hf-174 | | | | | | | | | |
| ***** | | | | | | | | | |
| 1.000000-5 | 1.680000+2 | 1 | 2 | 0 | 07225 | 2151 | | | |
| 1.000000-5 | 2.300000+2 | 1 | 2 | 0 | 07225 | 2151 | | | |
| ----- | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1657225 | 3 | 1 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1347225 | 3 | 1 | | |
| ----- | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1657225 | 3 | 2 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1347225 | 3 | 2 | | |
| ----- | | | | | | | | | |
| 0.000000+0-9.099990+4 | | 0 | 0 | 1 | 467225 | 3 | 4 | | |
| 0.000000+0-9.320000+4 | | 0 | 0 | 1 | 1227225 | 3 | 4 | | |
| ----- | | | | | | | | | |
| -8.581680+6-8.581680+6 | | 0 | 0 | 1 | 137225 | 3 | 16 | | |
| -8.570000+6-8.570000+6 | | 0 | 0 | 1 | 157225 | 3 | 16 | | |
| ----- | | | | | | | | | |
| 0.000000+0-9.099990+4 | | 0 | 0 | 1 | 467225 | 3 | 51 | Only | in VII.1 |
| 0.000000+0-9.320000+4 | | 0 | 0 | 1 | 357225 | 3 | 51 | | |
| ----- | | | | | | | | | |
| 0.000000+0-2.975000+5 | | 0 | 0 | 1 | 447225 | 3 | 52 | | |
| 0.000000+0-3.070000+5 | | 0 | 0 | 1 | 277225 | 3 | 52 | | |
| ----- | | | | | | | | | |
| 0.000000+0-6.083990+5 | | 0 | 0 | 1 | 257225 | 3 | 53 | | |
| 0.000000+0-6.320000+5 | | 0 | 0 | 1 | 177225 | 3 | 53 | | |
| ----- | | | | | | | | | |
| | | | | | 7225 | 3 | 54 | Only | in VII.1 |
| | | | | | 7225 | 3 | 55 | Only | in VII.1 |
| | | | | | 7225 | 3 | 56 | Only | in VII.1 |
| | | | | | 7225 | 3 | 57 | Only | in VII.1 |
| | | | | | 7225 | 3 | 58 | Only | in VII.1 |
| | | | | | 7225 | 3 | 59 | Only | in VII.1 |
| | | | | | 7225 | 3 | 60 | Only | in VII.1 |
| | | | | | 7225 | 3 | 61 | Only | in VII.1 |
| | | | | | 7225 | 3 | 62 | Only | in VII.1 |
| | | | | | 7225 | 3 | 63 | Only | in VII.1 |
| | | | | | 7225 | 3 | 64 | Only | in VII.1 |
| | | | | | 7225 | 3 | 65 | Only | in VII.1 |
| | | | | | 7225 | 3 | 66 | Only | in VII.1 |
| | | | | | 7225 | 3 | 67 | Only | in VII.1 |
| | | | | | 7225 | 3 | 68 | Only | in VII.1 |
| 0.000000+0-1.648700+6 | | 0 | 0 | 1 | 217225 | 3 | 91 | | |
| 0.000000+0-9.320000+4 | | 0 | 0 | 1 | 1017225 | 3 | 91 | | |
| ----- | | | | | | | | | |
| 6.789690+6 | 6.789690+6 | 0 | 0 | 2 | 327225 | 3102 | | | |
| 6.824200+6 | 6.824200+6 | 0 | 0 | 2 | 907225 | 3102 | | | |
| ----- | | | | | | | | | |
| | | | | | 7225 | 3103 | | Only | in VII.0 |
| 0.000000+0 | 1.724460+2 | 0 | 2 | 0 | 07225 | 4 | 2 | | |
| 0.000000+0 | 1.769540+2 | 0 | 2 | 0 | 07225 | 4 | 2 | | |
| ----- | | | | | | | | | |
| 0.000000+0 | 1.724460+2 | 1 | 1 | 0 | 07225 | 4 | 16 | | |
| 0.000000+0 | 1.769540+2 | 1 | 1 | 0 | 07225 | 4 | 16 | | |
| ----- | | | | | | | | | |
| | | | | | 7225 | 4 | 17 | Only | in VII.1 |
| 0.000000+0 | 1.724460+2 | 0 | 2 | 0 | 07225 | 4 | 51 | | |
| 0.000000+0 | 1.769540+2 | 1 | 2 | 0 | 07225 | 4 | 51 | | |
| ----- | | | | | | | | | |
| 0.000000+0 | 1.724460+2 | 0 | 2 | 0 | 07225 | 4 | 52 | | |
| 0.000000+0 | 1.769540+2 | 1 | 2 | 0 | 07225 | 4 | 52 | | |
| ----- | | | | | | | | | |
| 0.000000+0 | 1.724460+2 | 0 | 2 | 0 | 07225 | 4 | 53 | | |
| 0.000000+0 | 1.769540+2 | 1 | 2 | 0 | 07225 | 4 | 53 | | |
| ----- | | | | | | | | | |
| | | | | | 7225 | 4 | 54 | Only | in VII.1 |
| | | | | | 7225 | 4 | 55 | Only | in VII.1 |
| | | | | | 7225 | 4 | 56 | Only | in VII.1 |
| | | | | | 7225 | 4 | 57 | | |

| | | | | | | | |
|------------------------|------------|---|---|---|-------------|------|----------|
| | | | | | 7225 4 60 | Only | in VII.1 |
| | | | | | 7225 4 61 | Only | in VII.1 |
| | | | | | 7225 4 62 | Only | in VII.1 |
| | | | | | 7225 4 63 | Only | in VII.1 |
| | | | | | 7225 4 64 | Only | in VII.1 |
| | | | | | 7225 4 65 | Only | in VII.1 |
| | | | | | 7225 4 66 | Only | in VII.1 |
| | | | | | 7225 4 67 | Only | in VII.1 |
| | | | | | 7225 4 68 | Only | in VII.1 |
| 0.000000+0 | 1.724460+2 | 1 | 1 | 0 | 07225 4 91 | | |
| 0.000000+0 | 1.769540+2 | 1 | 1 | 0 | 07225 4 91 | | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 27225 5 16 | | |
| 8.620000+6 | 0.000000+0 | 0 | 9 | 1 | 27225 5 16 | | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 7225 5 17 | Only | in VII.1 |
| 6.500000+5 | 0.000000+0 | 0 | 9 | 1 | 27225 5 91 | | |
| | | | | | 47225 5 91 | | |
| ----- | | | | | | | |
| 72-Hf-176 | | | | | | | |
| ***** | | | | | | | |
| 1.000000-5 | 7.000000+2 | 1 | 2 | 0 | 07231 2151 | | |
| 1.000000-5 | 1.080000+3 | 1 | 2 | 0 | 07231 2151 | | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1677231 3 1 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1277231 3 1 | | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1677231 3 2 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1277231 3 2 | | |
| ----- | | | | | | | |
| 0.000000+0-8.829990+4 | | 0 | 0 | 1 | 517231 3 4 | | |
| 0.000000+0-9.320000+4 | | 0 | 0 | 1 | 897231 3 4 | | |
| ----- | | | | | | | |
| -8.088680+6-8.088680+6 | | 0 | 0 | 1 | 137231 3 16 | | |
| -8.090000+6-8.090000+6 | | 0 | 0 | 1 | 177231 3 16 | | |
| ----- | | | | | | | |
| | | | | | 7231 3 17 | Only | in VII.1 |
| 0.000000+0-8.829990+4 | | 0 | 0 | 1 | 517231 3 51 | | |
| 0.000000+0-9.320000+4 | | 0 | 0 | 1 | 357231 3 51 | | |
| ----- | | | | | | | |
| 0.000000+0-2.902000+5 | | 0 | 0 | 1 | 277231 3 52 | | |
| 0.000000+0-3.070000+5 | | 0 | 0 | 1 | 277231 3 52 | | |
| ----- | | | | | | | |
| 0.000000+0-5.969990+5 | | 0 | 0 | 1 | 257231 3 53 | | |
| 0.000000+0-6.320000+5 | | 0 | 0 | 1 | 177231 3 53 | | |
| ----- | | | | | | | |
| | | | | | 7231 3 54 | Only | in VII.1 |
| | | | | | 7231 3 55 | Only | in VII.1 |
| | | | | | 7231 3 56 | Only | in VII.1 |
| | | | | | 7231 3 57 | Only | in VII.1 |
| | | | | | 7231 3 58 | Only | in VII.1 |
| | | | | | 7231 3 59 | Only | in VII.1 |
| | | | | | 7231 3 60 | Only | in VII.1 |
| | | | | | 7231 3 61 | Only | in VII.1 |
| | | | | | 7231 3 62 | Only | in VII.1 |
| | | | | | 7231 3 63 | Only | in VII.1 |
| | | | | | 7231 3 64 | Only | in VII.1 |
| | | | | | 7231 3 65 | Only | in VII.1 |
| | | | | | 7231 3 66 | Only | in VII.1 |
| | | | | | 7231 3 67 | Only | in VII.1 |
| | | | | | 7231 3 68 | Only | in VII.1 |
| | | | | | 7231 3 69 | Only | in VII.1 |
| | | | | | 7231 3 70 | Only | in VII.1 |
| | | | | | 7231 3 71 | Only | in VII.1 |
| | | | | | 7231 3 72 | Only | in VII.1 |
| | | | | | 7231 3 73 | Only | in VII.1 |
| 0.000000+0-1.840000+6 | | 0 | 0 | 1 | 207231 3 91 | | |
| 0.000000+0-9.320000+4 | | 0 | 0 | 1 | 687231 3 91 | | |
| ----- | | | | | | | |
| 6.383690+6 | 6.383690+6 | 0 | 0 | 2 | 327231 3102 | | |
| 6.404550+6 | 6.404550+6 | 0 | 0 | 2 | 907231 3102 | | |
| ----- | | | | | | | |
| -4.065290+5-4.065290+5 | | 0 | 0 | 1 | 217231 3103 | | |
| -2.397000+5-2.397000+5 | | 0 | 0 | 1 | 437231 3103 | | |

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|------------------------|------------|---|---|---|-------------|---------------|
| 0.000000+0 | 1.744290+2 | 0 | 2 | 0 | 7231 3107 | Only in VII.1 |
| 0.000000+0 | 1.769540+2 | 0 | 2 | 0 | 07231 4 2 | |
| 0.000000+0 | 1.744290+2 | 1 | 1 | 0 | 07231 4 16 | |
| 0.000000+0 | 1.769540+2 | 1 | 1 | 0 | 07231 4 16 | |
| 0.000000+0 | 1.744290+2 | 0 | 2 | 0 | 7231 4 17 | Only in VII.1 |
| 0.000000+0 | 1.769540+2 | 1 | 2 | 0 | 07231 4 51 | |
| 0.000000+0 | 1.744290+2 | 0 | 2 | 0 | 07231 4 52 | |
| 0.000000+0 | 1.769540+2 | 1 | 2 | 0 | 07231 4 52 | |
| 0.000000+0 | 1.744290+2 | 0 | 2 | 0 | 07231 4 53 | |
| 0.000000+0 | 1.769540+2 | 1 | 2 | 0 | 07231 4 53 | |
| | | | | | 7231 4 54 | Only in VII.1 |
| | | | | | 7231 4 55 | Only in VII.1 |
| | | | | | 7231 4 56 | Only in VII.1 |
| | | | | | 7231 4 57 | Only in VII.1 |
| | | | | | 7231 4 58 | Only in VII.1 |
| | | | | | 7231 4 59 | Only in VII.1 |
| | | | | | 7231 4 60 | Only in VII.1 |
| | | | | | 7231 4 61 | Only in VII.1 |
| | | | | | 7231 4 62 | Only in VII.1 |
| | | | | | 7231 4 63 | Only in VII.1 |
| | | | | | 7231 4 64 | Only in VII.1 |
| | | | | | 7231 4 65 | Only in VII.1 |
| | | | | | 7231 4 66 | Only in VII.1 |
| | | | | | 7231 4 67 | Only in VII.1 |
| | | | | | 7231 4 68 | Only in VII.1 |
| | | | | | 7231 4 69 | Only in VII.1 |
| | | | | | 7231 4 70 | Only in VII.1 |
| | | | | | 7231 4 71 | Only in VII.1 |
| | | | | | 7231 4 72 | Only in VII.1 |
| | | | | | 7231 4 73 | Only in VII.1 |
| 0.000000+0 | 1.744290+2 | 1 | 1 | 0 | 07231 4 91 | |
| 0.000000+0 | 1.769540+2 | 1 | 1 | 0 | 07231 4 91 | |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 27231 5 16 | |
| 8.130000+6 | 0.000000+0 | 0 | 9 | 1 | 27231 5 16 | |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 7231 5 17 | Only in VII.1 |
| 6.500000+5 | 0.000000+0 | 0 | 9 | 1 | 27231 5 91 | |
| | | | | | 47231 5 91 | |
| 72-Hf-177 | | | | | | |
| ***** | | | | | | |
| 1.000000-5 | 5.100000+2 | 1 | 2 | 0 | 07234 2151 | |
| 1.000000-5 | 7.000000+2 | 1 | 2 | 0 | 07234 2151 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1647234 3 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1227234 3 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1647234 3 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1227234 3 2 | |
| 0.000000+0-1.130000+5 | | 0 | 0 | 1 | 437234 3 4 | |
| 0.000000+0-9.320000+4 | | 0 | 0 | 1 | 867234 3 4 | |
| -6.380680+6-6.380680+6 | | 0 | 0 | 1 | 157234 3 16 | |
| -6.380000+6-6.380000+6 | | 0 | 0 | 1 | 157234 3 16 | |
| 0.000000+0-1.130000+5 | | 0 | 0 | 1 | 7234 3 17 | Only in VII.1 |
| 0.000000+0-1.130000+5 | | 0 | 0 | 1 | 437234 3 51 | |
| | | | | | 267234 3 51 | |
| 0.000000+0-2.497000+5 | | 0 | 0 | 1 | 427234 3 52 | |
| 0.000000+0-2.506000+5 | | 0 | 0 | 1 | 267234 3 52 | |
| 0.000000+0-3.213000+5 | | 0 | 0 | 1 | 407234 3 53 | |
| 0.000000+0-3.210000+5 | | 0 | 0 | 1 | 277234 3 53 | |
| 0.000000+0-4.094990+5 | | 0 | 0 | 1 | 397234 3 54 | |

| | | | | | |
|-----------------------|---|---|---|-------------|---------------|
| 0.000000+0-3.850000+5 | 0 | 0 | 1 | 237234 3 54 | |
| ----- | | | | | |
| 0.000000+0-4.266990+5 | 0 | 0 | 1 | 387234 3 55 | |
| 0.000000+0-4.090000+5 | 0 | 0 | 1 | 217234 3 55 | |
| ----- | | | | | |
| 0.000000+0-5.080990+5 | 0 | 0 | 1 | 367234 3 56 | |
| 0.000000+0-4.266000+5 | 0 | 0 | 1 | 217234 3 56 | |
| ----- | | | | | |
| 0.000000+0-5.551990+5 | 0 | 0 | 1 | 357234 3 57 | |
| 0.000000+0-5.090000+5 | 0 | 0 | 1 | 217234 3 57 | |
| ----- | | | | | |
| 0.000000+0-5.912990+5 | 0 | 0 | 1 | 257234 3 58 | |
| 0.000000+0-5.550000+5 | 0 | 0 | 1 | 197234 3 58 | |
| ----- | | | | | |
| 0.000000+0-6.043990+5 | 0 | 0 | 1 | 337234 3 59 | |
| 0.000000+0-5.910000+5 | 0 | 0 | 1 | 197234 3 59 | |
| ----- | | | | | |
| 0.000000+0-7.084990+5 | 0 | 0 | 1 | 247234 3 60 | |
| 0.000000+0-6.320000+5 | 0 | 0 | 1 | 177234 3 60 | |
| ----- | | | | | |
| | | | | 7234 3 61 | Only in VII.1 |
| | | | | 7234 3 62 | Only in VII.1 |
| | | | | 7234 3 63 | Only in VII.1 |
| | | | | 7234 3 64 | Only in VII.1 |
| | | | | 7234 3 65 | Only in VII.1 |
| | | | | 7234 3 66 | Only in VII.1 |
| 0.000000+0-9.479990+5 | 0 | 0 | 1 | 247234 3 91 | |
| 0.000000+0-9.320000+4 | 0 | 0 | 1 | 657234 3 91 | |
| ----- | | | | | |
| 7.626690+6 7.626690+6 | 0 | 0 | 2 | 327234 3102 | |
| 7.669860+6 7.669860+6 | 0 | 0 | 2 | 897234 3102 | |
| ----- | | | | | |
| 2.854700+5 2.854700+5 | 0 | 0 | 1 | 207234 3103 | |
| 3.199260+5 3.199260+5 | 0 | 0 | 1 | 407234 3103 | |
| ----- | | | | | |
| | | | | 7234 3107 | Only in VII.1 |
| 0.000000+0 1.754200+2 | 0 | 2 | 0 | 07234 4 2 | |
| 0.000000+0 1.769540+2 | 0 | 2 | 0 | 07234 4 2 | |
| ----- | | | | | |
| 0.000000+0 1.754200+2 | 1 | 1 | 0 | 07234 4 16 | |
| 0.000000+0 1.769540+2 | 1 | 1 | 0 | 07234 4 16 | |
| ----- | | | | | |
| | | | | 7234 4 17 | Only in VII.1 |
| 0.000000+0 1.754200+2 | 0 | 2 | 0 | 07234 4 51 | |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07234 4 51 | |
| ----- | | | | | |
| 0.000000+0 1.754200+2 | 0 | 2 | 0 | 07234 4 52 | |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07234 4 52 | |
| ----- | | | | | |
| 0.000000+0 1.754200+2 | 0 | 2 | 0 | 07234 4 53 | |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07234 4 53 | |
| ----- | | | | | |
| 0.000000+0 1.754200+2 | 0 | 2 | 0 | 07234 4 54 | |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07234 4 54 | |
| ----- | | | | | |
| 0.000000+0 1.754200+2 | 0 | 2 | 0 | 07234 4 55 | |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07234 4 55 | |
| ----- | | | | | |
| 0.000000+0 1.754200+2 | 0 | 2 | 0 | 07234 4 56 | |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07234 4 56 | |
| ----- | | | | | |
| 0.000000+0 1.754200+2 | 0 | 2 | 0 | 07234 4 57 | |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07234 4 57 | |
| ----- | | | | | |
| 0.000000+0 1.754200+2 | 0 | 2 | 0 | 07234 4 58 | |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07234 4 58 | |
| ----- | | | | | |
| 0.000000+0 1.754200+2 | 0 | 2 | 0 | 07234 4 59 | |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07234 4 59 | |
| ----- | | | | | |
| 0.000000+0 1.754200+2 | 0 | 2 | 0 | 07234 4 60 | |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07234 4 60 | |
| ----- | | | | | |
| | | | | 7234 4 61 | Only in VII.1 |
| | | | | 7234 4 62 | Only in VII.1 |

| | | | | | | | |
|------------------------|------------|---|---|---|-------------|------|----------|
| | | | | | 7234 4 63 | Only | in VII.1 |
| | | | | | 7234 4 64 | Only | in VII.1 |
| | | | | | 7234 4 65 | Only | in VII.1 |
| | | | | | 7234 4 66 | Only | in VII.1 |
| 0.000000+0 | 1.754200+2 | 1 | 1 | 0 | 07234 4 91 | | |
| 0.000000+0 | 1.769540+2 | 1 | 1 | 0 | 07234 4 91 | | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 27234 5 16 | | |
| 6.420000+6 | 0.000000+0 | 0 | 9 | 1 | 27234 5 16 | | |
| ----- | | | | | | | |
| | | | | | 7234 5 17 | Only | in VII.1 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 27234 5 91 | | |
| 6.500000+5 | 0.000000+0 | 0 | 9 | 1 | 47234 5 91 | | |
| ----- | | | | | | | |
| 72-Hf-178 | | | | | | | |
| ***** | | | | | | | |
| 1.000000-5 | 1.600000+3 | 1 | 2 | 0 | 07237 2151 | | |
| 1.000000-5 | 2.100000+3 | 1 | 2 | 0 | 07237 2151 | | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1717237 3 1 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1197237 3 1 | | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1717237 3 2 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1197237 3 2 | | |
| ----- | | | | | | | |
| 0.000000+0-9.319990+4 | | 0 | 0 | 1 | 497237 3 4 | | |
| 0.000000+0-9.320000+4 | | 0 | 0 | 1 | 867237 3 4 | | |
| ----- | | | | | | | |
| -7.625680+6-7.625680+6 | | 0 | 0 | 1 | 147237 3 16 | | |
| -7.630000+6-7.630000+6 | | 0 | 0 | 1 | 167237 3 16 | | |
| ----- | | | | | | | |
| | | | | | 7237 3 17 | Only | in VII.1 |
| 0.000000+0-9.319990+4 | | 0 | 0 | 1 | 497237 3 51 | | |
| 0.000000+0-9.320000+4 | | 0 | 0 | 1 | 357237 3 51 | | |
| ----- | | | | | | | |
| 0.000000+0-3.066000+5 | | 0 | 0 | 1 | 467237 3 52 | | |
| 0.000000+0-3.070000+5 | | 0 | 0 | 1 | 277237 3 52 | | |
| ----- | | | | | | | |
| 0.000000+0-6.321990+5 | | 0 | 0 | 1 | 257237 3 53 | | |
| 0.000000+0-6.320000+5 | | 0 | 0 | 1 | 177237 3 53 | | |
| ----- | | | | | | | |
| | | | | | 7237 3 54 | Only | in VII.1 |
| | | | | | 7237 3 55 | Only | in VII.1 |
| | | | | | 7237 3 56 | Only | in VII.1 |
| | | | | | 7237 3 57 | Only | in VII.1 |
| | | | | | 7237 3 58 | Only | in VII.1 |
| | | | | | 7237 3 59 | Only | in VII.1 |
| | | | | | 7237 3 60 | Only | in VII.1 |
| | | | | | 7237 3 61 | Only | in VII.1 |
| | | | | | 7237 3 62 | Only | in VII.1 |
| | | | | | 7237 3 63 | Only | in VII.1 |
| | | | | | 7237 3 64 | Only | in VII.1 |
| | | | | | 7237 3 65 | Only | in VII.1 |
| | | | | | 7237 3 66 | Only | in VII.1 |
| | | | | | 7237 3 67 | Only | in VII.1 |
| | | | | | 7237 3 68 | Only | in VII.1 |
| | | | | | 7237 3 69 | Only | in VII.1 |
| | | | | | 7237 3 70 | Only | in VII.1 |
| | | | | | 7237 3 71 | Only | in VII.1 |
| 0.000000+0-1.640000+6 | | 0 | 0 | 1 | 217237 3 91 | | |
| 0.000000+0-9.320000+4 | | 0 | 0 | 1 | 657237 3 91 | | |
| ----- | | | | | | | |
| 6.099690+6 | 6.099690+6 | 0 | 0 | 2 | 327237 3102 | | |
| 6.115730+6 | 6.115730+6 | 0 | 0 | 2 | 907237 3102 | | |
| ----- | | | | | | | |
| -1.469530+6-1.469530+6 | | 0 | 0 | 1 | 207237 3103 | | |
| -1.470000+6-1.470000+6 | | 0 | 0 | 1 | 337237 3103 | | |
| ----- | | | | | | | |
| | | | | | 7237 3107 | Only | in VII.1 |
| 0.000000+0 | 1.764110+2 | 0 | 2 | 0 | 07237 4 2 | | |
| 0.000000+0 | 1.769540+2 | 0 | 2 | 0 | 07237 4 2 | | |
| ----- | | | | | | | |
| 0.000000+0 | 1.764110+2 | 1 | 1 | 0 | 07237 4 16 | | |
| 0.000000+0 | 1.769540+2 | 1 | 1 | 0 | 07237 4 16 | | |

| | | | | | | |
|------------------------|------------|---|---|---|-------------|---------------|
| 0.000000+0 | 1.764110+2 | 0 | 2 | 0 | 7237 4 17 | Only in VII.1 |
| 0.000000+0 | 1.769540+2 | 1 | 2 | 0 | 07237 4 51 | |
| 0.000000+0 | 1.764110+2 | 0 | 2 | 0 | 07237 4 52 | |
| 0.000000+0 | 1.769540+2 | 1 | 2 | 0 | 07237 4 52 | |
| 0.000000+0 | 1.764110+2 | 0 | 2 | 0 | 07237 4 53 | |
| 0.000000+0 | 1.769540+2 | 1 | 2 | 0 | 07237 4 53 | |
| | | | | | 7237 4 54 | Only in VII.1 |
| | | | | | 7237 4 55 | Only in VII.1 |
| | | | | | 7237 4 56 | Only in VII.1 |
| | | | | | 7237 4 57 | Only in VII.1 |
| | | | | | 7237 4 58 | Only in VII.1 |
| | | | | | 7237 4 59 | Only in VII.1 |
| | | | | | 7237 4 60 | Only in VII.1 |
| | | | | | 7237 4 61 | Only in VII.1 |
| | | | | | 7237 4 62 | Only in VII.1 |
| | | | | | 7237 4 63 | Only in VII.1 |
| | | | | | 7237 4 64 | Only in VII.1 |
| | | | | | 7237 4 65 | Only in VII.1 |
| | | | | | 7237 4 66 | Only in VII.1 |
| | | | | | 7237 4 67 | Only in VII.1 |
| | | | | | 7237 4 68 | Only in VII.1 |
| | | | | | 7237 4 69 | Only in VII.1 |
| | | | | | 7237 4 70 | Only in VII.1 |
| | | | | | 7237 4 71 | Only in VII.1 |
| 0.000000+0 | 1.764110+2 | 1 | 1 | 0 | 07237 4 91 | |
| 0.000000+0 | 1.769540+2 | 1 | 1 | 0 | 07237 4 91 | |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 27237 5 16 | |
| 7.670000+6 | 0.000000+0 | 0 | 9 | 1 | 27237 5 16 | |
| | | | | | 7237 5 17 | Only in VII.1 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 27237 5 91 | |
| 6.500000+5 | 0.000000+0 | 0 | 9 | 1 | 47237 5 91 | |
| 72-Hf-179 | | | | | | |
| ***** | | | | | | |
| 1.000000-5 | 5.100000+2 | 1 | 2 | 0 | 07240 2151 | |
| 1.000000-5 | 4.500000+2 | 1 | 2 | 0 | 07240 2151 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1627240 3 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1127240 3 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1627240 3 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1127240 3 2 | |
| 0.000000+0-1.227000+5 | | 0 | 0 | 1 | 397240 3 4 | |
| 0.000000+0-9.320000+4 | | 0 | 0 | 1 | 867240 3 4 | |
| -6.099680+6-6.099680+6 | | 0 | 0 | 1 | 157240 3 16 | |
| -6.100000+6-6.100000+6 | | 0 | 0 | 1 | 127240 3 16 | |
| | | | | | 7240 3 17 | Only in VII.1 |
| 0.000000+0-1.227000+5 | | 0 | 0 | 1 | 397240 3 51 | |
| 0.000000+0-1.130000+5 | | 0 | 0 | 1 | 267240 3 51 | |
| 0.000000+0-2.143000+5 | | 0 | 0 | 1 | 387240 3 52 | |
| 0.000000+0-2.506000+5 | | 0 | 0 | 1 | 267240 3 52 | |
| 0.000000+0-2.688000+5 | | 0 | 0 | 1 | 377240 3 53 | |
| 0.000000+0-3.070000+5 | | 0 | 0 | 1 | 277240 3 53 | |
| 0.000000+0-3.377000+5 | | 0 | 0 | 1 | 357240 3 54 | |
| 0.000000+0-3.850000+5 | | 0 | 0 | 1 | 237240 3 54 | |
| | | | | | 7240 3 55 | Only in VII.1 |
| | | | | | 7240 3 56 | Only in VII.1 |
| | | | | | 7240 3 57 | Only in VII.1 |
| | | | | | 7240 3 58 | Only in VII.1 |
| | | | | | 7240 3 59 | Only in VII.1 |
| | | | | | 7240 3 60 | Only in VII.1 |
| | | | | | 7240 3 61 | Only in VII.1 |

| | | | | | |
|------------------------|---|---|---|-------------|---------------|
| 0.000000+0-1.070000+6 | 0 | 0 | 1 | 7240 3 62 | Only in VII.1 |
| 0.000000+0-9.320000+4 | 0 | 0 | 1 | 237240 3 91 | |
| 7.388690+6 7.388690+6 | 0 | 0 | 2 | 327240 3102 | |
| 7.180000+6 7.180000+6 | 0 | 0 | 2 | 877240 3102 | |
| -5.675290+5-5.675290+5 | 0 | 0 | 1 | 207240 3103 | |
| -5.700000+5-5.700000+5 | 0 | 0 | 1 | 307240 3103 | |
| 0.000000+0 1.774130+2 | 0 | 2 | 0 | 7240 3107 | Only in VII.1 |
| 0.000000+0 1.769540+2 | 0 | 2 | 0 | 07240 4 2 | |
| 0.000000+0 1.774130+2 | 1 | 1 | 0 | 07240 4 16 | |
| 0.000000+0 1.769540+2 | 1 | 1 | 0 | 07240 4 16 | |
| 0.000000+0 1.774130+2 | 0 | 2 | 0 | 7240 4 17 | Only in VII.1 |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07240 4 51 | |
| 0.000000+0 1.774130+2 | 0 | 2 | 0 | 07240 4 52 | |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07240 4 52 | |
| 0.000000+0 1.774130+2 | 0 | 2 | 0 | 07240 4 53 | |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07240 4 53 | |
| 0.000000+0 1.774130+2 | 0 | 2 | 0 | 07240 4 54 | |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07240 4 54 | |
| | | | | 7240 4 55 | Only in VII.1 |
| | | | | 7240 4 56 | Only in VII.1 |
| | | | | 7240 4 57 | Only in VII.1 |
| | | | | 7240 4 58 | Only in VII.1 |
| | | | | 7240 4 59 | Only in VII.1 |
| | | | | 7240 4 60 | Only in VII.1 |
| | | | | 7240 4 61 | Only in VII.1 |
| | | | | 7240 4 62 | Only in VII.1 |
| 0.000000+0 1.774130+2 | 1 | 1 | 0 | 07240 4 91 | |
| 0.000000+0 1.769540+2 | 1 | 1 | 0 | 07240 4 91 | |
| 0.000000+0 0.000000+0 | 0 | 1 | 1 | 27240 5 16 | |
| 6.130000+6 0.000000+0 | 0 | 9 | 1 | 27240 5 16 | |
| 0.000000+0 0.000000+0 | 0 | 1 | 1 | 7240 5 17 | Only in VII.1 |
| 6.500000+5 0.000000+0 | 0 | 9 | 1 | 27240 5 91 | |
| | | | | 47240 5 91 | |
| 72-Hf-180 | | | | | |
| ***** | | | | | |
| 1.000000-5 4.992000+3 | 1 | 2 | 0 | 07243 2151 | |
| 1.000000-5 1.000000+4 | 1 | 2 | 0 | 07243 2151 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 2 | 1677243 3 1 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 1117243 3 1 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 2 | 1677243 3 2 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 1117243 3 2 | |
| 0.000000+0-9.329990+4 | 0 | 0 | 1 | 397243 3 4 | |
| 0.000000+0-9.320000+4 | 0 | 0 | 1 | 897243 3 4 | |
| -7.387680+6-7.387680+6 | 0 | 0 | 1 | 147243 3 16 | |
| -7.390000+6-7.390000+6 | 0 | 0 | 1 | 187243 3 16 | |
| 0.000000+0-9.329990+4 | 0 | 0 | 1 | 7243 3 17 | Only in VII.1 |
| 0.000000+0-9.320000+4 | 0 | 0 | 1 | 397243 3 51 | |
| | | | | 357243 3 51 | |
| 0.000000+0-3.086000+5 | 0 | 0 | 1 | 367243 3 52 | |
| 0.000000+0-3.070000+5 | 0 | 0 | 1 | 277243 3 52 | |
| 0.000000+0-6.408990+5 | 0 | 0 | 1 | 257243 3 53 | |
| 0.000000+0-6.320000+5 | 0 | 0 | 1 | 177243 3 53 | |

| | | | | | | |
|------------------------------------|---|---|---|--------------|---------------|---------------|
| | | | | | 7243 3 54 | Only in VII.1 |
| | | | | | 7243 3 55 | Only in VII.1 |
| | | | | | 7243 3 56 | Only in VII.1 |
| | | | | | 7243 3 57 | Only in VII.1 |
| | | | | | 7243 3 58 | Only in VII.1 |
| | | | | | 7243 3 59 | Only in VII.1 |
| | | | | | 7243 3 60 | Only in VII.1 |
| | | | | | 7243 3 61 | Only in VII.1 |
| 0.000000+0-1.607600+6 | 0 | 0 | 1 | 217243 3 91 | | |
| 0.000000+0-9.320000+4 | 0 | 0 | 1 | 657243 3 91 | | |
| ----- | | | | | | |
| 5.695690+6 5.695690+6 | 0 | 0 | 2 | 327243 3102 | | |
| 5.654020+6 5.654020+6 | 0 | 0 | 2 | 927243 3102 | | |
| ----- | | | | | | |
| -2.513530+6-2.513530+6 | 0 | 0 | 1 | 187243 3103 | | |
| -2.520000+6-2.520000+6 | 0 | 0 | 1 | 257243 3103 | | |
| ----- | | | | | | |
| | | | | 7243 3107 | Only in VII.1 | |
| 0.000000+0 1.784040+2 | 0 | 2 | 0 | 07243 4 2 | | |
| 0.000000+0 1.769540+2 | 0 | 2 | 0 | 07243 4 2 | | |
| ----- | | | | | | |
| 0.000000+0 1.784040+2 | 1 | 1 | 0 | 07243 4 16 | | |
| 0.000000+0 1.769540+2 | 1 | 1 | 0 | 07243 4 16 | | |
| ----- | | | | | | |
| | | | | 7243 4 17 | Only in VII.1 | |
| 0.000000+0 1.784040+2 | 0 | 2 | 0 | 07243 4 51 | | |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07243 4 51 | | |
| ----- | | | | | | |
| 0.000000+0 1.784040+2 | 0 | 2 | 0 | 07243 4 52 | | |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07243 4 52 | | |
| ----- | | | | | | |
| 0.000000+0 1.784040+2 | 0 | 2 | 0 | 07243 4 53 | | |
| 0.000000+0 1.769540+2 | 1 | 2 | 0 | 07243 4 53 | | |
| ----- | | | | | | |
| | | | | 7243 4 54 | Only in VII.1 | |
| | | | | 7243 4 55 | Only in VII.1 | |
| | | | | 7243 4 56 | Only in VII.1 | |
| | | | | 7243 4 57 | Only in VII.1 | |
| | | | | 7243 4 58 | Only in VII.1 | |
| | | | | 7243 4 59 | Only in VII.1 | |
| | | | | 7243 4 60 | Only in VII.1 | |
| | | | | 7243 4 61 | Only in VII.1 | |
| 0.000000+0 1.784040+2 | 1 | 1 | 0 | 07243 4 91 | | |
| 0.000000+0 1.769540+2 | 1 | 1 | 0 | 07243 4 91 | | |
| ----- | | | | | | |
| 0.000000+0 0.000000+0 | 0 | 1 | 1 | 27243 5 16 | | |
| 7.430000+6 0.000000+0 | 0 | 9 | 1 | 27243 5 16 | | |
| ----- | | | | | | |
| | | | | 7243 5 17 | Only in VII.1 | |
| 0.000000+0 0.000000+0 | 0 | 1 | 1 | 27243 5 91 | | |
| 6.500000+5 0.000000+0 | 0 | 9 | 1 | 47243 5 91 | | |
| ----- | | | | | | |
| 73-Ta-180 Evaluation Only in VII.1 | | | | | | |
| ***** | | | | | | |
| 73-Ta-181 | | | | | | |
| ***** | | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 1067328 3 1 | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 837328 3 1 | | |
| ----- | | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 1067328 3 2 | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 387328 3 2 | | |
| ----- | | | | | | |
| | | | | 7328 3 4 | Only in VII.0 | |
| -7.576757+6-7.576757+6 | 0 | 0 | 1 | 647328 3 16 | | |
| -7.630000+6-7.630000+6 | 0 | 0 | 1 | 177328 3 16 | | |
| ----- | | | | | | |
| -1.421796+7-1.421796+7 | 0 | 0 | 1 | 307328 3 17 | | |
| -1.422000+7-1.422000+7 | 0 | 0 | 1 | 77328 3 17 | | |
| ----- | | | | | | |
| | | | | 7328 3 22 | Only in VII.1 | |
| | | | | 7328 3 28 | Only in VII.1 | |
| 0.000000+0-6.238000+3 | 0 | 0 | 1 | 1057328 3 51 | | |
| 0.000000+0-6.200000+3 | 0 | 0 | 1 | 127328 3 51 | | |
| ----- | | | | | | |
| 0.000000+0-1.362660+5 | 0 | 0 | 1 | 1017328 3 52 | | |

| | | | | | |
|------------------------|---|---|---|--------------|---------------|
| 0.000000+0-1.361000+5 | 0 | 0 | 1 | 127328 3 52 | |
| ----- | | | | | |
| 0.000000+0-1.585500+5 | 0 | 0 | 1 | 1017328 3 53 | |
| 0.000000+0-1.586000+5 | 0 | 0 | 1 | 127328 3 53 | |
| ----- | | | | | |
| 0.000000+0-3.016200+5 | 0 | 0 | 1 | 1007328 3 54 | |
| 0.000000+0-3.015000+5 | 0 | 0 | 1 | 107328 3 54 | |
| ----- | | | | | |
| 0.000000+0-3.375400+5 | 0 | 0 | 1 | 1007328 3 55 | |
| 0.000000+0-3.375000+5 | 0 | 0 | 1 | 107328 3 55 | |
| ----- | | | | | |
| 0.000000+0-4.821820+5 | 0 | 0 | 1 | 997328 3 56 | |
| 0.000000+0-4.822000+5 | 0 | 0 | 1 | 107328 3 56 | |
| ----- | | | | | |
| 0.000000+0-4.951900+5 | 0 | 0 | 1 | 997328 3 57 | |
| 0.000000+0-4.950000+5 | 0 | 0 | 1 | 107328 3 57 | |
| ----- | | | | | |
| 0.000000+0-5.425100+5 | 0 | 0 | 1 | 997328 3 58 | |
| 0.000000+0-6.200000+5 | 0 | 0 | 1 | 107328 3 58 | |
| ----- | | | | | |
| 0.000000+0-6.152100+5 | 0 | 0 | 1 | 987328 3 59 | |
| 0.000000+0-7.200000+5 | 0 | 0 | 1 | 97328 3 59 | |
| ----- | | | | | |
| 0.000000+0-6.190500+5 | 0 | 0 | 1 | 987328 3 60 | |
| 0.000000+0-9.250000+5 | 0 | 0 | 1 | 77328 3 60 | |
| ----- | | | | | |
| | | | | 7328 3 61 | Only in VII.1 |
| | | | | 7328 3 62 | Only in VII.1 |
| | | | | 7328 3 63 | Only in VII.1 |
| | | | | 7328 3 64 | Only in VII.1 |
| | | | | 7328 3 65 | Only in VII.1 |
| | | | | 7328 3 66 | Only in VII.1 |
| | | | | 7328 3 67 | Only in VII.1 |
| | | | | 7328 3 68 | Only in VII.1 |
| | | | | 7328 3 69 | Only in VII.1 |
| | | | | 7328 3 70 | Only in VII.1 |
| ----- | | | | | |
| 0.000000+0-1.392239+6 | 0 | 0 | 1 | 947328 3 91 | |
| 0.000000+0-1.193000+6 | 0 | 0 | 1 | 147328 3 91 | |
| ----- | | | | | |
| 6.062936+6 6.062936+6 | 0 | 0 | 1 | 1067328 3102 | |
| 6.070000+6 6.070000+6 | 0 | 0 | 1 | 377328 3102 | |
| ----- | | | | | |
| -2.474042+5-2.474042+5 | 0 | 0 | 1 | 857328 3103 | |
| -2.387000+5-2.387000+5 | 0 | 0 | 1 | 67328 3103 | |
| ----- | | | | | |
| | | | | 7328 3104 | Only in VII.1 |
| | | | | 7328 3105 | Only in VII.1 |
| | | | | 7328 3107 | Only in VII.1 |
| ----- | | | | | |
| 0.000000+0 1.793936+2 | 0 | 2 | 0 | 07328 4 2 | |
| 0.000000+0 1.794000+2 | 0 | 2 | 0 | 07328 4 2 | |
| ----- | | | | | |
| | | | | 7328 4 16 | Only in VII.0 |
| | | | | 7328 4 17 | Only in VII.0 |
| ----- | | | | | |
| 0.000000+0 1.793936+2 | 0 | 2 | 0 | 07328 4 51 | |
| 0.000000+0 1.794000+2 | 0 | 2 | 0 | 07328 4 51 | |
| ----- | | | | | |
| 0.000000+0 1.793936+2 | 0 | 2 | 0 | 07328 4 52 | |
| 0.000000+0 1.794000+2 | 0 | 2 | 0 | 07328 4 52 | |
| ----- | | | | | |
| 0.000000+0 1.793936+2 | 0 | 2 | 0 | 07328 4 53 | |
| 0.000000+0 1.794000+2 | 0 | 2 | 0 | 07328 4 53 | |
| ----- | | | | | |
| 0.000000+0 1.793936+2 | 0 | 2 | 0 | 07328 4 54 | |
| 0.000000+0 1.794000+2 | 0 | 2 | 0 | 07328 4 54 | |
| ----- | | | | | |
| 0.000000+0 1.793936+2 | 0 | 2 | 0 | 07328 4 55 | |
| 0.000000+0 1.794000+2 | 0 | 2 | 0 | 07328 4 55 | |
| ----- | | | | | |
| 0.000000+0 1.793936+2 | 0 | 2 | 0 | 07328 4 56 | |
| 0.000000+0 1.794000+2 | 0 | 2 | 0 | 07328 4 56 | |
| ----- | | | | | |
| 0.000000+0 1.793936+2 | 0 | 2 | 0 | 07328 4 57 | |
| 0.000000+0 1.794000+2 | 0 | 2 | 0 | 07328 4 57 | |
| ----- | | | | | |
| 0.000000+0 1.793936+2 | 0 | 2 | 0 | 07328 4 58 | |

| | | | | | | | | |
|------------------------------------|-------------|---|---|---|---------|------|----|---------------|
| 0.000000+0 | 1.794000+2 | 0 | 2 | 0 | 07328 | 4 | 58 | |
| 0.000000+0 | 1.793936+2 | 0 | 2 | 0 | 07328 | 4 | 59 | |
| 0.000000+0 | 1.794000+2 | 0 | 2 | 0 | 07328 | 4 | 59 | |
| 0.000000+0 | 1.793936+2 | 0 | 2 | 0 | 07328 | 4 | 60 | |
| 0.000000+0 | 1.794000+2 | 0 | 2 | 0 | 07328 | 4 | 60 | |
| | | | | | 7328 | 4 | 61 | Only in VII.1 |
| | | | | | 7328 | 4 | 62 | Only in VII.1 |
| | | | | | 7328 | 4 | 63 | Only in VII.1 |
| | | | | | 7328 | 4 | 64 | Only in VII.1 |
| | | | | | 7328 | 4 | 65 | Only in VII.1 |
| | | | | | 7328 | 4 | 66 | Only in VII.1 |
| | | | | | 7328 | 4 | 67 | Only in VII.1 |
| | | | | | 7328 | 4 | 68 | Only in VII.1 |
| | | | | | 7328 | 4 | 69 | Only in VII.1 |
| | | | | | 7328 | 4 | 70 | Only in VII.1 |
| | | | | | 7328 | 4 | 91 | Only in VII.0 |
| | | | | | 7328 | 5 | 16 | Only in VII.0 |
| | | | | | 7328 | 5 | 17 | Only in VII.0 |
| | | | | | 7328 | 5 | 91 | Only in VII.0 |
| | | | | | 7328 | 6 | 16 | Only in VII.1 |
| | | | | | 7328 | 6 | 17 | Only in VII.1 |
| | | | | | 7328 | 6 | 22 | Only in VII.1 |
| | | | | | 7328 | 6 | 28 | Only in VII.1 |
| | | | | | 7328 | 6 | 91 | Only in VII.1 |
| | | | | | 7328 | 6103 | | Only in VII.1 |
| | | | | | 7328 | 6104 | | Only in VII.1 |
| | | | | | 7328 | 6105 | | Only in VII.1 |
| | | | | | 7328 | 6107 | | Only in VII.1 |
| 73-Ta-182 | | | | | | | | |
| ***** | | | | | | | | |
| 74-W -180 Evaluation Only in VII.1 | | | | | | | | |
| ***** | | | | | | | | |
| 74-W -182 | | | | | | | | |
| ***** | | | | | | | | |
| 1.000000-5 | 4.500000+3 | 1 | 3 | 0 | 17431 | 2151 | | |
| 1.000000-5 | 4.500000+3 | 1 | 2 | 0 | 07431 | 2151 | | |
| | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1797431 | 3 | 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 3957431 | 3 | 1 | |
| | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1277431 | 3 | 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 3897431 | 3 | 2 | |
| | | | | | | | | |
| 0.000000+0 | -1.001100+5 | 0 | 0 | 1 | 1107431 | 3 | 4 | |
| 0.000000+0 | -1.000500+5 | 0 | 0 | 1 | 827431 | 3 | 4 | |
| | | | | | | | | |
| 9.679000+6 | 9.679000+6 | 0 | 0 | 1 | 497431 | 3 | 5 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1577431 | 3 | 5 | |
| | | | | | | | | |
| -8.064000+6 | -8.064000+6 | 0 | 0 | 1 | 437431 | 3 | 16 | |
| -8.062400+6 | -8.062400+6 | 0 | 0 | 1 | 277431 | 3 | 16 | |
| | | | | | | | | |
| -1.474500+7 | -1.474500+7 | 0 | 0 | 1 | 267431 | 3 | 17 | |
| -1.474700+7 | -1.474700+7 | 0 | 0 | 1 | 147431 | 3 | 17 | |
| | | | | | | | | |
| -7.094000+6 | -7.094000+6 | 0 | 0 | 1 | 377431 | 3 | 28 | |
| -7.092000+6 | -7.092000+6 | 0 | 0 | 1 | 217431 | 3 | 28 | |
| | | | | | | | | |
| | | | | | 7431 | 3 | 37 | Only in VII.1 |
| | | | | | 7431 | 3 | 41 | Only in VII.1 |
| 0.000000+0 | -1.001100+5 | 0 | 0 | 1 | 1017431 | 3 | 51 | |
| 0.000000+0 | -1.000500+5 | 0 | 0 | 1 | 827431 | 3 | 51 | |
| | | | | | | | | |
| 0.000000+0 | -3.294300+5 | 0 | 0 | 1 | 877431 | 3 | 52 | |
| 0.000000+0 | -3.289800+5 | 0 | 0 | 1 | 787431 | 3 | 52 | |
| | | | | | | | | |
| 0.000000+0 | -6.805000+5 | 0 | 0 | 1 | 757431 | 3 | 53 | |
| 0.000000+0 | -6.800300+5 | 0 | 0 | 1 | 477431 | 3 | 53 | |
| | | | | | | | | |
| 0.000000+0 | -1.135810+6 | 0 | 0 | 1 | 677431 | 3 | 54 | |
| 0.000000+0 | -1.135700+6 | 0 | 0 | 1 | 427431 | 3 | 54 | |

| | | | | | | | | |
|-----------------------|---|---|---|---------|------|------|----------|----------|
| 0.000000+0-1.144400+6 | 0 | 0 | 1 | 667431 | 3 | 55 | | |
| 0.000000+0-1.144500+6 | 0 | 0 | 1 | 417431 | 3 | 55 | | |
| 0.000000+0-1.221410+6 | 0 | 0 | 1 | 657431 | 3 | 56 | | |
| 0.000000+0-1.222200+6 | 0 | 0 | 1 | 397431 | 3 | 56 | | |
| 0.000000+0-1.257420+6 | 0 | 0 | 1 | 647431 | 3 | 57 | | |
| 0.000000+0-1.258000+6 | 0 | 0 | 1 | 387431 | 3 | 57 | | |
| 0.000000+0-1.289160+6 | 0 | 0 | 1 | 647431 | 3 | 58 | | |
| 0.000000+0-1.288900+6 | 0 | 0 | 1 | 377431 | 3 | 58 | | |
| 0.000000+0-1.331130+6 | 0 | 0 | 1 | 637431 | 3 | 59 | | |
| 0.000000+0-1.330600+6 | 0 | 0 | 1 | 367431 | 3 | 59 | | |
| | | | | 7431 | 3 | 60 | Only | in VII.0 |
| | | | | 7431 | 3 | 61 | Only | in VII.0 |
| | | | | 7431 | 3 | 62 | Only | in VII.0 |
| | | | | 7431 | 3 | 63 | Only | in VII.0 |
| | | | | 7431 | 3 | 64 | Only | in VII.0 |
| | | | | 7431 | 3 | 65 | Only | in VII.0 |
| | | | | 7431 | 3 | 66 | Only | in VII.0 |
| | | | | 7431 | 3 | 67 | Only | in VII.0 |
| | | | | 7431 | 3 | 68 | Only | in VII.0 |
| | | | | 7431 | 3 | 69 | Only | in VII.0 |
| 0.000000+0-6.399520+5 | 0 | 0 | 1 | 767431 | 3 | 91 | | |
| 0.000000+0-2.983500+5 | 0 | 0 | 1 | 797431 | 3 | 91 | | |
| 6.191000+6 6.191000+6 | 0 | 0 | 1 | 1277431 | 3102 | | | |
| 6.190740+6 6.190740+6 | 0 | 0 | 2 | 867431 | 3102 | | | |
| | | | | 7431 | 3103 | Only | in VII.0 | |
| | | | | 7431 | 3107 | Only | in VII.0 | |
| | | | | 7431 | 3600 | Only | in VII.1 | |
| | | | | 7431 | 3601 | Only | in VII.1 | |
| | | | | 7431 | 3602 | Only | in VII.1 | |
| | | | | 7431 | 3603 | Only | in VII.1 | |
| | | | | 7431 | 3604 | Only | in VII.1 | |
| | | | | 7431 | 3605 | Only | in VII.1 | |
| | | | | 7431 | 3606 | Only | in VII.1 | |
| | | | | 7431 | 3607 | Only | in VII.1 | |
| | | | | 7431 | 3608 | Only | in VII.1 | |
| | | | | 7431 | 3609 | Only | in VII.1 | |
| | | | | 7431 | 3610 | Only | in VII.1 | |
| | | | | 7431 | 3611 | Only | in VII.1 | |
| | | | | 7431 | 3612 | Only | in VII.1 | |
| | | | | 7431 | 3613 | Only | in VII.1 | |
| | | | | 7431 | 3614 | Only | in VII.1 | |
| | | | | 7431 | 3615 | Only | in VII.1 | |
| | | | | 7431 | 3616 | Only | in VII.1 | |
| | | | | 7431 | 3617 | Only | in VII.1 | |
| | | | | 7431 | 3618 | Only | in VII.1 | |
| | | | | 7431 | 3619 | Only | in VII.1 | |
| | | | | 7431 | 3620 | Only | in VII.1 | |
| | | | | 7431 | 3621 | Only | in VII.1 | |
| | | | | 7431 | 3622 | Only | in VII.1 | |
| | | | | 7431 | 3623 | Only | in VII.1 | |
| | | | | 7431 | 3624 | Only | in VII.1 | |
| | | | | 7431 | 3625 | Only | in VII.1 | |
| | | | | 7431 | 3626 | Only | in VII.1 | |
| | | | | 7431 | 3627 | Only | in VII.1 | |
| | | | | 7431 | 3628 | Only | in VII.1 | |
| | | | | 7431 | 3629 | Only | in VII.1 | |
| | | | | 7431 | 3649 | Only | in VII.1 | |
| | | | | 7431 | 3800 | Only | in VII.1 | |
| | | | | 7431 | 3801 | Only | in VII.1 | |
| | | | | 7431 | 3802 | Only | in VII.1 | |
| | | | | 7431 | 3803 | Only | in VII.1 | |
| | | | | 7431 | 3804 | Only | in VII.1 | |
| | | | | 7431 | 3805 | Only | in VII.1 | |
| | | | | 7431 | 3806 | Only | in VII.1 | |
| | | | | 7431 | 3849 | Only | in VII.1 | |
| 0.000000+0 1.803850+2 | 0 | 2 | 0 | 617431 | 4 | 2 | | |
| 0.000000+0 1.803900+2 | 0 | 2 | 0 | 07431 | 4 | 2 | | |

| | | | | | | |
|------------|------------|---|---|---|------------|---------------|
| | | | | | 7431 4 16 | Only in VII.0 |
| | | | | | 7431 4 17 | Only in VII.0 |
| | | | | | 7431 4 28 | Only in VII.0 |
| 0.000000+0 | 1.803850+2 | 0 | 2 | 0 | 07431 4 51 | |
| 0.000000+0 | 1.803900+2 | 0 | 2 | 0 | 07431 4 51 | |
| 0.000000+0 | 1.803850+2 | 0 | 2 | 0 | 07431 4 52 | |
| 0.000000+0 | 1.803900+2 | 0 | 2 | 0 | 07431 4 52 | |
| 0.000000+0 | 1.803850+2 | 0 | 2 | 0 | 07431 4 53 | |
| 0.000000+0 | 1.803900+2 | 0 | 2 | 0 | 07431 4 53 | |
| 0.000000+0 | 1.803850+2 | 0 | 2 | 0 | 07431 4 54 | |
| 0.000000+0 | 1.803900+2 | 0 | 2 | 0 | 07431 4 54 | |
| 0.000000+0 | 1.803850+2 | 0 | 2 | 0 | 07431 4 55 | |
| 0.000000+0 | 1.803900+2 | 0 | 2 | 0 | 07431 4 55 | |
| 0.000000+0 | 1.803850+2 | 0 | 2 | 0 | 07431 4 56 | |
| 0.000000+0 | 1.803900+2 | 0 | 2 | 0 | 07431 4 56 | |
| 0.000000+0 | 1.803850+2 | 0 | 2 | 0 | 07431 4 57 | |
| 0.000000+0 | 1.803900+2 | 0 | 2 | 0 | 07431 4 57 | |
| 0.000000+0 | 1.803850+2 | 0 | 2 | 0 | 07431 4 58 | |
| 0.000000+0 | 1.803900+2 | 0 | 2 | 0 | 07431 4 58 | |
| 0.000000+0 | 1.803850+2 | 0 | 2 | 0 | 07431 4 59 | |
| 0.000000+0 | 1.803900+2 | 0 | 2 | 0 | 07431 4 59 | |
| | | | | | 7431 4 60 | Only in VII.0 |
| | | | | | 7431 4 61 | Only in VII.0 |
| | | | | | 7431 4 62 | Only in VII.0 |
| | | | | | 7431 4 63 | Only in VII.0 |
| | | | | | 7431 4 64 | Only in VII.0 |
| | | | | | 7431 4 65 | Only in VII.0 |
| | | | | | 7431 4 66 | Only in VII.0 |
| | | | | | 7431 4 67 | Only in VII.0 |
| | | | | | 7431 4 68 | Only in VII.0 |
| | | | | | 7431 4 69 | Only in VII.0 |
| | | | | | 7431 4 91 | Only in VII.0 |
| | | | | | 7431 4600 | Only in VII.1 |
| | | | | | 7431 4601 | Only in VII.1 |
| | | | | | 7431 4602 | Only in VII.1 |
| | | | | | 7431 4603 | Only in VII.1 |
| | | | | | 7431 4604 | Only in VII.1 |
| | | | | | 7431 4605 | Only in VII.1 |
| | | | | | 7431 4606 | Only in VII.1 |
| | | | | | 7431 4607 | Only in VII.1 |
| | | | | | 7431 4608 | Only in VII.1 |
| | | | | | 7431 4609 | Only in VII.1 |
| | | | | | 7431 4610 | Only in VII.1 |
| | | | | | 7431 4611 | Only in VII.1 |
| | | | | | 7431 4612 | Only in VII.1 |
| | | | | | 7431 4613 | Only in VII.1 |
| | | | | | 7431 4614 | Only in VII.1 |
| | | | | | 7431 4615 | Only in VII.1 |
| | | | | | 7431 4616 | Only in VII.1 |
| | | | | | 7431 4617 | Only in VII.1 |
| | | | | | 7431 4618 | Only in VII.1 |
| | | | | | 7431 4619 | Only in VII.1 |
| | | | | | 7431 4620 | Only in VII.1 |
| | | | | | 7431 4621 | Only in VII.1 |
| | | | | | 7431 4622 | Only in VII.1 |
| | | | | | 7431 4623 | Only in VII.1 |
| | | | | | 7431 4624 | Only in VII.1 |
| | | | | | 7431 4625 | Only in VII.1 |
| | | | | | 7431 4626 | Only in VII.1 |
| | | | | | 7431 4627 | Only in VII.1 |
| | | | | | 7431 4628 | Only in VII.1 |
| | | | | | 7431 4629 | Only in VII.1 |
| | | | | | 7431 4800 | Only in VII.1 |
| | | | | | 7431 4801 | Only in VII.1 |
| | | | | | 7431 4802 | Only in VII.1 |
| | | | | | 7431 4803 | Only in VII.1 |

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|------------------------|------------|---|---|---|--------------|---------------|
| | | | | | 7431 4804 | Only in VII.1 |
| | | | | | 7431 4805 | Only in VII.1 |
| | | | | | 7431 4806 | Only in VII.1 |
| | | | | | 7431 5 16 | Only in VII.0 |
| | | | | | 7431 5 17 | Only in VII.0 |
| | | | | | 7431 5 28 | Only in VII.0 |
| | | | | | 7431 5 91 | Only in VII.0 |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 487431 6 5 | |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 277431 6 5 | |
| ----- | | | | | | |
| | | | | | 7431 6 16 | Only in VII.1 |
| | | | | | 7431 6 17 | Only in VII.1 |
| | | | | | 7431 6 28 | Only in VII.1 |
| | | | | | 7431 6 37 | Only in VII.1 |
| | | | | | 7431 6 41 | Only in VII.1 |
| | | | | | 7431 6 91 | Only in VII.1 |
| | | | | | 7431 6102 | Only in VII.1 |
| | | | | | 7431 6649 | Only in VII.1 |
| | | | | | 7431 6849 | Only in VII.1 |
| 74-W -183 | | | | | | |
| ***** | | | | | | |
| 1.000000-5 | 2.200000+3 | 1 | 3 | 0 | 17434 2151 | |
| 1.000000-5 | 7.650000+2 | 1 | 2 | 0 | 07434 2151 | |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1627434 3 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 2927434 3 1 | |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1247434 3 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 2927434 3 2 | |
| ----- | | | | | | |
| 0.000000+0-4.648000+4 | | 0 | 0 | 1 | 1107434 3 4 | |
| 0.000000+0-4.700100+4 | | 0 | 0 | 1 | 897434 3 4 | |
| ----- | | | | | | |
| 1.035200+7 | 1.035200+7 | 0 | 0 | 1 | 497434 3 5 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1577434 3 5 | |
| ----- | | | | | | |
| -6.191000+6-6.191000+6 | | 0 | 0 | 1 | 467434 3 16 | |
| -6.190400+6-6.190400+6 | | 0 | 0 | 1 | 327434 3 16 | |
| ----- | | | | | | |
| -1.425500+7-1.425500+7 | | 0 | 0 | 1 | 287434 3 17 | |
| -1.425300+7-1.425300+7 | | 0 | 0 | 1 | 157434 3 17 | |
| ----- | | | | | | |
| -7.222000+6-7.222000+6 | | 0 | 0 | 1 | 397434 3 28 | |
| -7.219000+6-7.219000+6 | | 0 | 0 | 1 | 217434 3 28 | |
| ----- | | | | | | |
| | | | | | 7434 3 37 | Only in VII.1 |
| | | | | | 7434 3 41 | Only in VII.1 |
| 0.000000+0-4.648000+4 | | 0 | 0 | 1 | 1007434 3 51 | |
| 0.000000+0-4.700100+4 | | 0 | 0 | 1 | 897434 3 51 | |
| ----- | | | | | | |
| 0.000000+0-9.908000+4 | | 0 | 0 | 1 | 927434 3 52 | |
| 0.000000+0-9.900400+4 | | 0 | 0 | 1 | 847434 3 52 | |
| ----- | | | | | | |
| 0.000000+0-2.070100+5 | | 0 | 0 | 1 | 837434 3 53 | |
| 0.000000+0-2.069600+5 | | 0 | 0 | 1 | 807434 3 53 | |
| ----- | | | | | | |
| 0.000000+0-2.088100+5 | | 0 | 0 | 1 | 837434 3 54 | |
| 0.000000+0-2.090500+5 | | 0 | 0 | 1 | 527434 3 54 | |
| ----- | | | | | | |
| 0.000000+0-2.917200+5 | | 0 | 0 | 1 | 807434 3 55 | |
| 0.000000+0-2.919900+5 | | 0 | 0 | 1 | 517434 3 55 | |
| ----- | | | | | | |
| 0.000000+0-3.089500+5 | | 0 | 0 | 1 | 797434 3 56 | |
| 0.000000+0-3.090000+5 | | 0 | 0 | 1 | 767434 3 56 | |
| ----- | | | | | | |
| 0.000000+0-3.094900+5 | | 0 | 0 | 1 | 797434 3 57 | |
| 0.000000+0-3.094900+5 | | 0 | 0 | 1 | 487434 3 57 | |
| ----- | | | | | | |
| 0.000000+0-4.120900+5 | | 0 | 0 | 1 | 767434 3 58 | |
| 0.000000+0-4.120300+5 | | 0 | 0 | 1 | 467434 3 58 | |
| ----- | | | | | | |
| 0.000000+0-4.530700+5 | | 0 | 0 | 1 | 747434 3 59 | |
| 0.000000+0-4.530000+5 | | 0 | 0 | 1 | 457434 3 59 | |
| ----- | | | | | | |
| 0.000000+0-4.754000+5 | | 0 | 0 | 1 | 747434 3 60 | |

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|-----------------------|---|---|---|--------------|---------------|
| 0.000000+0-4.870100+5 | 0 | 0 | 1 | 447434 3 60 | |
| 0.000000+0-4.870000+5 | 0 | 0 | 1 | 747434 3 61 | |
| 0.000000+0-5.540500+5 | 0 | 0 | 1 | 427434 3 61 | |
| | | | | 7434 3 62 | Only in VII.0 |
| | | | | 7434 3 63 | Only in VII.0 |
| | | | | 7434 3 64 | Only in VII.0 |
| 0.000000+0-4.870000+5 | 0 | 0 | 1 | 747434 3 91 | |
| 0.000000+0-7.400200+5 | 0 | 0 | 1 | 647434 3 91 | |
| 7.411000+6 7.411000+6 | 0 | 0 | 1 | 1277434 3102 | |
| 7.411800+6 7.411800+6 | 0 | 0 | 1 | 917434 3102 | |
| | | | | 7434 3103 | Only in VII.0 |
| | | | | 7434 3107 | Only in VII.0 |
| | | | | 7434 3600 | Only in VII.1 |
| | | | | 7434 3601 | Only in VII.1 |
| | | | | 7434 3602 | Only in VII.1 |
| | | | | 7434 3603 | Only in VII.1 |
| | | | | 7434 3604 | Only in VII.1 |
| | | | | 7434 3605 | Only in VII.1 |
| | | | | 7434 3606 | Only in VII.1 |
| | | | | 7434 3607 | Only in VII.1 |
| | | | | 7434 3608 | Only in VII.1 |
| | | | | 7434 3609 | Only in VII.1 |
| | | | | 7434 3610 | Only in VII.1 |
| | | | | 7434 3611 | Only in VII.1 |
| | | | | 7434 3612 | Only in VII.1 |
| | | | | 7434 3613 | Only in VII.1 |
| | | | | 7434 3614 | Only in VII.1 |
| | | | | 7434 3649 | Only in VII.1 |
| | | | | 7434 3800 | Only in VII.1 |
| | | | | 7434 3801 | Only in VII.1 |
| | | | | 7434 3802 | Only in VII.1 |
| | | | | 7434 3803 | Only in VII.1 |
| | | | | 7434 3804 | Only in VII.1 |
| | | | | 7434 3805 | Only in VII.1 |
| | | | | 7434 3806 | Only in VII.1 |
| | | | | 7434 3807 | Only in VII.1 |
| | | | | 7434 3808 | Only in VII.1 |
| | | | | 7434 3809 | Only in VII.1 |
| | | | | 7434 3810 | Only in VII.1 |
| | | | | 7434 3811 | Only in VII.1 |
| | | | | 7434 3812 | Only in VII.1 |
| | | | | 7434 3813 | Only in VII.1 |
| | | | | 7434 3814 | Only in VII.1 |
| | | | | 7434 3815 | Only in VII.1 |
| | | | | 7434 3816 | Only in VII.1 |
| | | | | 7434 3817 | Only in VII.1 |
| | | | | 7434 3818 | Only in VII.1 |
| | | | | 7434 3819 | Only in VII.1 |
| | | | | 7434 3820 | Only in VII.1 |
| | | | | 7434 3821 | Only in VII.1 |
| | | | | 7434 3822 | Only in VII.1 |
| | | | | 7434 3823 | Only in VII.1 |
| | | | | 7434 3824 | Only in VII.1 |
| | | | | 7434 3849 | Only in VII.1 |
| 0.000000+0 1.813790+2 | 0 | 2 | 0 | 627434 4 2 | |
| 0.000000+0 1.813800+2 | 0 | 2 | 0 | 07434 4 2 | |
| | | | | 7434 4 16 | Only in VII.0 |
| | | | | 7434 4 17 | Only in VII.0 |
| | | | | 7434 4 28 | Only in VII.0 |
| 0.000000+0 1.813790+2 | 0 | 2 | 0 | 07434 4 51 | |
| 0.000000+0 1.813800+2 | 0 | 2 | 0 | 07434 4 51 | |
| 0.000000+0 1.813790+2 | 0 | 2 | 0 | 07434 4 52 | |
| 0.000000+0 1.813800+2 | 0 | 2 | 0 | 07434 4 52 | |
| 0.000000+0 1.813790+2 | 0 | 2 | 0 | 07434 4 53 | |
| 0.000000+0 1.813800+2 | 0 | 2 | 0 | 07434 4 53 | |
| 0.000000+0 1.813790+2 | 0 | 2 | 0 | 07434 4 54 | |
| 0.000000+0 1.813800+2 | 0 | 2 | 0 | 07434 4 54 | |

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|------------|------------|---|---|---|-------------------------|
| ----- | | | | | |
| 0.000000+0 | 1.813790+2 | 0 | 2 | 0 | 07434 4 55 |
| 0.000000+0 | 1.813800+2 | 0 | 2 | 0 | 07434 4 55 |
| ----- | | | | | |
| 0.000000+0 | 1.813790+2 | 0 | 2 | 0 | 07434 4 56 |
| 0.000000+0 | 1.813800+2 | 0 | 2 | 0 | 07434 4 56 |
| ----- | | | | | |
| 0.000000+0 | 1.813790+2 | 0 | 2 | 0 | 07434 4 57 |
| 0.000000+0 | 1.813800+2 | 0 | 2 | 0 | 07434 4 57 |
| ----- | | | | | |
| 0.000000+0 | 1.813790+2 | 0 | 2 | 0 | 07434 4 58 |
| 0.000000+0 | 1.813800+2 | 0 | 2 | 0 | 07434 4 58 |
| ----- | | | | | |
| 0.000000+0 | 1.813790+2 | 0 | 2 | 0 | 07434 4 59 |
| 0.000000+0 | 1.813800+2 | 0 | 2 | 0 | 07434 4 59 |
| ----- | | | | | |
| 0.000000+0 | 1.813790+2 | 0 | 2 | 0 | 07434 4 60 |
| 0.000000+0 | 1.813800+2 | 0 | 2 | 0 | 07434 4 60 |
| ----- | | | | | |
| 0.000000+0 | 1.813790+2 | 0 | 2 | 0 | 07434 4 61 |
| 0.000000+0 | 1.813800+2 | 0 | 2 | 0 | 07434 4 61 |
| ----- | | | | | |
| | | | | | 7434 4 62 Only in VII.0 |
| | | | | | 7434 4 63 Only in VII.0 |
| | | | | | 7434 4 64 Only in VII.0 |
| | | | | | 7434 4 91 Only in VII.0 |
| | | | | | 7434 4600 Only in VII.1 |
| | | | | | 7434 4601 Only in VII.1 |
| | | | | | 7434 4602 Only in VII.1 |
| | | | | | 7434 4603 Only in VII.1 |
| | | | | | 7434 4604 Only in VII.1 |
| | | | | | 7434 4605 Only in VII.1 |
| | | | | | 7434 4606 Only in VII.1 |
| | | | | | 7434 4607 Only in VII.1 |
| | | | | | 7434 4608 Only in VII.1 |
| | | | | | 7434 4609 Only in VII.1 |
| | | | | | 7434 4610 Only in VII.1 |
| | | | | | 7434 4611 Only in VII.1 |
| | | | | | 7434 4612 Only in VII.1 |
| | | | | | 7434 4613 Only in VII.1 |
| | | | | | 7434 4614 Only in VII.1 |
| | | | | | 7434 4800 Only in VII.1 |
| | | | | | 7434 4801 Only in VII.1 |
| | | | | | 7434 4802 Only in VII.1 |
| | | | | | 7434 4803 Only in VII.1 |
| | | | | | 7434 4804 Only in VII.1 |
| | | | | | 7434 4805 Only in VII.1 |
| | | | | | 7434 4806 Only in VII.1 |
| | | | | | 7434 4807 Only in VII.1 |
| | | | | | 7434 4808 Only in VII.1 |
| | | | | | 7434 4809 Only in VII.1 |
| | | | | | 7434 4810 Only in VII.1 |
| | | | | | 7434 4811 Only in VII.1 |
| | | | | | 7434 4812 Only in VII.1 |
| | | | | | 7434 4813 Only in VII.1 |
| | | | | | 7434 4814 Only in VII.1 |
| | | | | | 7434 4815 Only in VII.1 |
| | | | | | 7434 4816 Only in VII.1 |
| | | | | | 7434 4817 Only in VII.1 |
| | | | | | 7434 4818 Only in VII.1 |
| | | | | | 7434 4819 Only in VII.1 |
| | | | | | 7434 4820 Only in VII.1 |
| | | | | | 7434 4821 Only in VII.1 |
| | | | | | 7434 4822 Only in VII.1 |
| | | | | | 7434 4823 Only in VII.1 |
| | | | | | 7434 4824 Only in VII.1 |
| | | | | | 7434 5 16 Only in VII.0 |
| | | | | | 7434 5 17 Only in VII.0 |
| | | | | | 7434 5 28 Only in VII.0 |
| | | | | | 7434 5 91 Only in VII.0 |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 477434 6 5 |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 277434 6 5 |
| ----- | | | | | |
| | | | | | 7434 6 16 Only in VII.1 |
| | | | | | 7434 6 17 Only in VII.1 |

7434 6 28 Only in VII.1
 7434 6 37 Only in VII.1
 7434 6 41 Only in VII.1
 7434 6 91 Only in VII.1
 7434 6102 Only in VII.1
 7434 6649 Only in VII.1
 7434 6849 Only in VII.1

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| | | | | | | |
|------------|------------|---|---|---|-------|------|
| 1.000000-5 | 4.000000+3 | 1 | 3 | 0 | 17437 | 2151 |
| 1.000000-5 | 2.650000+3 | 1 | 2 | 0 | 07437 | 2151 |

| | | | | | | |
|------------|------------|---|---|---|---------|-----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1337437 | 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 3927437 | 3 1 |

| | | | | | | |
|------------|------------|---|---|---|---------|-----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1207437 | 3 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 3867437 | 3 2 |

| | | | | | | |
|------------|-------------|---|---|---|--------|-----|
| 0.000000+0 | -1.112100+5 | 0 | 0 | 1 | 987437 | 3 4 |
| 0.000000+0 | -1.111900+5 | 0 | 0 | 1 | 817437 | 3 4 |

| | | | | | | |
|------------|------------|---|---|---|---------|-----|
| 8.508000+6 | 8.508000+6 | 0 | 0 | 1 | 457437 | 3 5 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1557437 | 3 5 |

| | | | | | | |
|-------------|-------------|---|---|---|--------|------|
| -7.411000+6 | -7.411000+6 | 0 | 0 | 1 | 427437 | 3 16 |
| -7.411400+6 | -7.411400+6 | 0 | 0 | 1 | 297437 | 3 16 |

| | | | | | | |
|-------------|-------------|---|---|---|--------|------|
| -1.360200+7 | -1.360200+7 | 0 | 0 | 1 | 277437 | 3 17 |
| -1.360200+7 | -1.360200+7 | 0 | 0 | 1 | 167437 | 3 17 |

| | | | | | | |
|-------------|-------------|---|---|---|--------|------|
| -7.699000+6 | -7.699000+6 | 0 | 0 | 1 | 357437 | 3 28 |
| -7.700000+6 | -7.700000+6 | 0 | 0 | 1 | 197437 | 3 28 |

7437 3 37 Only in VII.1
 7437 3 41 Only in VII.1

| | | | | | | |
|------------|-------------|---|---|---|--------|------|
| 0.000000+0 | -1.112100+5 | 0 | 0 | 1 | 927437 | 3 51 |
| 0.000000+0 | -1.111900+5 | 0 | 0 | 1 | 807437 | 3 51 |

| | | | | | | |
|------------|-------------|---|---|---|--------|------|
| 0.000000+0 | -3.640600+5 | 0 | 0 | 1 | 797437 | 3 52 |
| 0.000000+0 | -3.640500+5 | 0 | 0 | 1 | 777437 | 3 52 |

| | | | | | | |
|------------|-------------|---|---|---|--------|------|
| 0.000000+0 | -7.483100+5 | 0 | 0 | 1 | 687437 | 3 53 |
| 0.000000+0 | -7.483300+5 | 0 | 0 | 1 | 457437 | 3 53 |

| | | | | | | |
|------------|-------------|---|---|---|--------|------|
| 0.000000+0 | -9.032800+5 | 0 | 0 | 1 | 667437 | 3 54 |
| 0.000000+0 | -9.032900+5 | 0 | 0 | 1 | 427437 | 3 54 |

| | | | | | | |
|------------|-------------|---|---|---|--------|------|
| 0.000000+0 | -1.002480+6 | 0 | 0 | 1 | 647437 | 3 55 |
| 0.000000+0 | -1.002500+6 | 0 | 0 | 1 | 407437 | 3 55 |

| | | | | | | |
|------------|-------------|---|---|---|--------|------|
| 0.000000+0 | -1.005970+6 | 0 | 0 | 1 | 647437 | 3 56 |
| 0.000000+0 | -1.006500+6 | 0 | 0 | 1 | 397437 | 3 56 |

7437 3 57 Only in VII.0
 7437 3 58 Only in VII.0
 7437 3 59 Only in VII.0
 7437 3 60 Only in VII.0
 7437 3 61 Only in VII.0
 7437 3 62 Only in VII.0
 7437 3 63 Only in VII.0
 7437 3 64 Only in VII.0
 7437 3 65 Only in VII.0
 7437 3 66 Only in VII.0
 7437 3 67 Only in VII.0
 7437 3 68 Only in VII.0

| | | | | | | |
|------------|-------------|---|---|---|--------|------|
| 0.000000+0 | -6.892210+5 | 0 | 0 | 1 | 707437 | 3 91 |
| 0.000000+0 | -4.972700+5 | 0 | 0 | 1 | 757437 | 3 91 |

| | | | | | | |
|------------|------------|---|---|---|---------|------|
| 5.753000+6 | 5.753000+6 | 0 | 0 | 1 | 1207437 | 3102 |
| 5.753780+6 | 5.753780+6 | 0 | 0 | 2 | 877437 | 3102 |

7437 3103 Only in VII.0
 7437 3107 Only in VII.0
 7437 3600 Only in VII.1
 7437 3649 Only in VII.1

| | | | | | |
|------------|------------|---|---|---|-------------------------|
| | | | | | 7437 3800 Only in VII.1 |
| | | | | | 7437 3801 Only in VII.1 |
| | | | | | 7437 3802 Only in VII.1 |
| | | | | | 7437 3803 Only in VII.1 |
| | | | | | 7437 3804 Only in VII.1 |
| | | | | | 7437 3805 Only in VII.1 |
| | | | | | 7437 3806 Only in VII.1 |
| | | | | | 7437 3807 Only in VII.1 |
| | | | | | 7437 3849 Only in VII.1 |
| 0.000000+0 | 1.823710+2 | 0 | 2 | 0 | 617437 4 2 |
| 0.000000+0 | 1.823700+2 | 0 | 2 | 0 | 07437 4 2 |
| ----- | | | | | |
| | | | | | 7437 4 16 Only in VII.0 |
| | | | | | 7437 4 17 Only in VII.0 |
| | | | | | 7437 4 28 Only in VII.0 |
| 0.000000+0 | 1.823710+2 | 0 | 2 | 0 | 07437 4 51 |
| 0.000000+0 | 1.823700+2 | 0 | 2 | 0 | 07437 4 51 |
| ----- | | | | | |
| 0.000000+0 | 1.823710+2 | 0 | 2 | 0 | 07437 4 52 |
| 0.000000+0 | 1.823700+2 | 0 | 2 | 0 | 07437 4 52 |
| ----- | | | | | |
| 0.000000+0 | 1.823710+2 | 0 | 2 | 0 | 07437 4 53 |
| 0.000000+0 | 1.823700+2 | 0 | 2 | 0 | 07437 4 53 |
| ----- | | | | | |
| 0.000000+0 | 1.823710+2 | 0 | 2 | 0 | 07437 4 54 |
| 0.000000+0 | 1.823700+2 | 0 | 2 | 0 | 07437 4 54 |
| ----- | | | | | |
| 0.000000+0 | 1.823710+2 | 0 | 2 | 0 | 07437 4 55 |
| 0.000000+0 | 1.823700+2 | 0 | 2 | 0 | 07437 4 55 |
| ----- | | | | | |
| 0.000000+0 | 1.823710+2 | 0 | 2 | 0 | 07437 4 56 |
| 0.000000+0 | 1.823700+2 | 0 | 2 | 0 | 07437 4 56 |
| ----- | | | | | |
| | | | | | 7437 4 57 Only in VII.0 |
| | | | | | 7437 4 58 Only in VII.0 |
| | | | | | 7437 4 59 Only in VII.0 |
| | | | | | 7437 4 60 Only in VII.0 |
| | | | | | 7437 4 61 Only in VII.0 |
| | | | | | 7437 4 62 Only in VII.0 |
| | | | | | 7437 4 63 Only in VII.0 |
| | | | | | 7437 4 64 Only in VII.0 |
| | | | | | 7437 4 65 Only in VII.0 |
| | | | | | 7437 4 66 Only in VII.0 |
| | | | | | 7437 4 67 Only in VII.0 |
| | | | | | 7437 4 68 Only in VII.0 |
| | | | | | 7437 4 91 Only in VII.0 |
| | | | | | 7437 4600 Only in VII.1 |
| | | | | | 7437 4800 Only in VII.1 |
| | | | | | 7437 4801 Only in VII.1 |
| | | | | | 7437 4802 Only in VII.1 |
| | | | | | 7437 4803 Only in VII.1 |
| | | | | | 7437 4804 Only in VII.1 |
| | | | | | 7437 4805 Only in VII.1 |
| | | | | | 7437 4806 Only in VII.1 |
| | | | | | 7437 4807 Only in VII.1 |
| | | | | | 7437 5 16 Only in VII.0 |
| | | | | | 7437 5 17 Only in VII.0 |
| | | | | | 7437 5 28 Only in VII.0 |
| | | | | | 7437 5 91 Only in VII.0 |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 457437 6 5 |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 277437 6 5 |
| ----- | | | | | |
| | | | | | 7437 6 16 Only in VII.1 |
| | | | | | 7437 6 17 Only in VII.1 |
| | | | | | 7437 6 28 Only in VII.1 |
| | | | | | 7437 6 37 Only in VII.1 |
| | | | | | 7437 6 41 Only in VII.1 |
| | | | | | 7437 6 91 Only in VII.1 |
| | | | | | 7437 6102 Only in VII.1 |
| | | | | | 7437 6649 Only in VII.1 |
| | | | | | 7437 6849 Only in VII.1 |
| 74-W -186 | | | | | |
| ***** | | | | | |
| 1.000000-5 | 8.500000+3 | 1 | 3 | 0 | 17443 2151 |
| 1.000000-5 | 3.200000+3 | 1 | 2 | 0 | 07443 2151 |

| | | | | | | | | |
|-------------|-------------|---|---|---|---------|------|----|---------------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1337443 | 3 | 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 3927443 | 3 | 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1157443 | 3 | 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 3867443 | 3 | 2 | |
| 0.000000+0 | -1.225800+5 | 0 | 0 | 1 | 1007443 | 3 | 4 | |
| 0.000000+0 | -1.223400+5 | 0 | 0 | 1 | 817443 | 3 | 4 | |
| 7.126000+6 | 7.126000+6 | 0 | 0 | 1 | 527443 | 3 | 5 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1547443 | 3 | 5 | |
| -7.194000+6 | -7.194000+6 | 0 | 0 | 1 | 417443 | 3 | 16 | |
| -7.199500+6 | -7.199500+6 | 0 | 0 | 1 | 307443 | 3 | 16 | |
| -1.294700+7 | -1.294700+7 | 0 | 0 | 1 | 287443 | 3 | 17 | |
| -1.295400+7 | -1.295400+7 | 0 | 0 | 1 | 177443 | 3 | 17 | |
| -8.404000+6 | -8.404000+6 | 0 | 0 | 1 | 347443 | 3 | 28 | |
| -8.427000+6 | -8.427000+6 | 0 | 0 | 1 | 187443 | 3 | 28 | |
| | | | | | 7443 | 3 | 37 | Only in VII.1 |
| | | | | | 7443 | 3 | 41 | Only in VII.1 |
| 0.000000+0 | -1.225800+5 | 0 | 0 | 1 | 897443 | 3 | 51 | |
| 0.000000+0 | -1.223400+5 | 0 | 0 | 1 | 817443 | 3 | 51 | |
| 0.000000+0 | -3.965500+5 | 0 | 0 | 1 | 787443 | 3 | 52 | |
| 0.000000+0 | -3.965500+5 | 0 | 0 | 1 | 777443 | 3 | 52 | |
| 0.000000+0 | -7.378600+5 | 0 | 0 | 1 | 687443 | 3 | 53 | |
| 0.000000+0 | -7.375300+5 | 0 | 0 | 1 | 457443 | 3 | 53 | |
| 0.000000+0 | -8.086100+5 | 0 | 0 | 1 | 677443 | 3 | 54 | |
| 0.000000+0 | -8.085500+5 | 0 | 0 | 1 | 437443 | 3 | 54 | |
| 0.000000+0 | -8.620800+5 | 0 | 0 | 1 | 667443 | 3 | 55 | |
| 0.000000+0 | -8.618700+5 | 0 | 0 | 1 | 427443 | 3 | 55 | |
| 0.000000+0 | -8.820000+5 | 0 | 0 | 1 | 667443 | 3 | 56 | |
| 0.000000+0 | -8.820600+5 | 0 | 0 | 1 | 417443 | 3 | 56 | |
| 0.000000+0 | -9.527400+5 | 0 | 0 | 1 | 657443 | 3 | 57 | |
| 0.000000+0 | -9.524800+5 | 0 | 0 | 1 | 397443 | 3 | 57 | |
| 0.000000+0 | -1.006670+6 | 0 | 0 | 1 | 647443 | 3 | 58 | |
| 0.000000+0 | -1.005600+6 | 0 | 0 | 1 | 377443 | 3 | 58 | |
| 0.000000+0 | -1.014890+6 | 0 | 0 | 1 | 647443 | 3 | 59 | |
| 0.000000+0 | -1.015500+6 | 0 | 0 | 1 | 367443 | 3 | 59 | |
| 0.000000+0 | -1.030700+6 | 0 | 0 | 1 | 647443 | 3 | 60 | |
| 0.000000+0 | -1.031500+6 | 0 | 0 | 1 | 357443 | 3 | 60 | |
| 0.000000+0 | -1.045330+6 | 0 | 0 | 1 | 647443 | 3 | 61 | |
| 0.000000+0 | -1.045400+6 | 0 | 0 | 1 | 347443 | 3 | 61 | |
| | | | | | 7443 | 3 | 62 | Only in VII.0 |
| | | | | | 7443 | 3 | 63 | Only in VII.0 |
| | | | | | 7443 | 3 | 64 | Only in VII.0 |
| | | | | | 7443 | 3 | 65 | Only in VII.0 |
| | | | | | 7443 | 3 | 66 | Only in VII.0 |
| | | | | | 7443 | 3 | 67 | Only in VII.0 |
| | | | | | 7443 | 3 | 68 | Only in VII.0 |
| 0.000000+0 | -6.892610+5 | 0 | 0 | 1 | 697443 | 3 | 91 | |
| 0.000000+0 | -2.983800+5 | 0 | 0 | 1 | 787443 | 3 | 91 | |
| 5.467000+6 | 5.467000+6 | 0 | 0 | 1 | 1157443 | 3102 | | |
| 5.466750+6 | 5.466750+6 | 0 | 0 | 2 | 877443 | 3102 | | |
| | | | | | 7443 | 3103 | | Only in VII.0 |
| | | | | | 7443 | 3107 | | Only in VII.0 |
| | | | | | 7443 | 3600 | | Only in VII.1 |
| | | | | | 7443 | 3649 | | Only in VII.1 |
| | | | | | 7443 | 3800 | | Only in VII.1 |

| | | | | | | |
|------------|------------|---|---|---|-------------|---------------|
| 0.000000+0 | 1.843570+2 | 0 | 2 | 0 | 7443 3849 | Only in VII.1 |
| 0.000000+0 | 1.843600+2 | 0 | 2 | 0 | 617443 4 2 | |
| | | | | | 07443 4 2 | |
| | | | | | 7443 4 16 | Only in VII.0 |
| | | | | | 7443 4 17 | Only in VII.0 |
| | | | | | 7443 4 28 | Only in VII.0 |
| 0.000000+0 | 1.843570+2 | 0 | 2 | 0 | 07443 4 51 | |
| 0.000000+0 | 1.843600+2 | 0 | 2 | 0 | 07443 4 51 | |
| 0.000000+0 | 1.843570+2 | 0 | 2 | 0 | 07443 4 52 | |
| 0.000000+0 | 1.843600+2 | 0 | 2 | 0 | 07443 4 52 | |
| 0.000000+0 | 1.843570+2 | 0 | 2 | 0 | 07443 4 53 | |
| 0.000000+0 | 1.843600+2 | 0 | 2 | 0 | 07443 4 53 | |
| 0.000000+0 | 1.843570+2 | 0 | 2 | 0 | 07443 4 54 | |
| 0.000000+0 | 1.843600+2 | 0 | 2 | 0 | 07443 4 54 | |
| 0.000000+0 | 1.843570+2 | 0 | 2 | 0 | 07443 4 55 | |
| 0.000000+0 | 1.843600+2 | 0 | 2 | 0 | 07443 4 55 | |
| 0.000000+0 | 1.843570+2 | 0 | 2 | 0 | 07443 4 56 | |
| 0.000000+0 | 1.843600+2 | 0 | 2 | 0 | 07443 4 56 | |
| 0.000000+0 | 1.843570+2 | 0 | 2 | 0 | 07443 4 57 | |
| 0.000000+0 | 1.843600+2 | 0 | 2 | 0 | 07443 4 57 | |
| 0.000000+0 | 1.843570+2 | 0 | 2 | 0 | 07443 4 58 | |
| 0.000000+0 | 1.843600+2 | 0 | 2 | 0 | 07443 4 58 | |
| 0.000000+0 | 1.843570+2 | 0 | 2 | 0 | 07443 4 59 | |
| 0.000000+0 | 1.843600+2 | 0 | 2 | 0 | 07443 4 59 | |
| 0.000000+0 | 1.843570+2 | 0 | 2 | 0 | 07443 4 60 | |
| 0.000000+0 | 1.843600+2 | 0 | 2 | 0 | 07443 4 60 | |
| 0.000000+0 | 1.843570+2 | 0 | 2 | 0 | 07443 4 61 | |
| 0.000000+0 | 1.843600+2 | 0 | 2 | 0 | 07443 4 61 | |
| | | | | | 7443 4 62 | Only in VII.0 |
| | | | | | 7443 4 63 | Only in VII.0 |
| | | | | | 7443 4 64 | Only in VII.0 |
| | | | | | 7443 4 65 | Only in VII.0 |
| | | | | | 7443 4 66 | Only in VII.0 |
| | | | | | 7443 4 67 | Only in VII.0 |
| | | | | | 7443 4 68 | Only in VII.0 |
| | | | | | 7443 4 91 | Only in VII.0 |
| | | | | | 7443 4600 | Only in VII.1 |
| | | | | | 7443 4800 | Only in VII.1 |
| | | | | | 7443 5 16 | Only in VII.0 |
| | | | | | 7443 5 17 | Only in VII.0 |
| | | | | | 7443 5 28 | Only in VII.0 |
| | | | | | 7443 5 91 | Only in VII.0 |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 437443 6 5 | |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 277443 6 5 | |
| | | | | | 7443 6 16 | Only in VII.1 |
| | | | | | 7443 6 17 | Only in VII.1 |
| | | | | | 7443 6 28 | Only in VII.1 |
| | | | | | 7443 6 37 | Only in VII.1 |
| | | | | | 7443 6 41 | Only in VII.1 |
| | | | | | 7443 6 91 | Only in VII.1 |
| | | | | | 7443 6102 | Only in VII.1 |
| | | | | | 7443 6649 | Only in VII.1 |
| | | | | | 7443 6849 | Only in VII.1 |
| 75-Re-185 | | | | | | |
| ***** | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1077525 3 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 3 | 1147525 3 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1077525 3 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 3 | 1147525 3 2 | |
| | | | | | 7525 3 4 | Only in VII.0 |

| | | | | | |
|------------------------|---|---|---|--------------|---------------|
| -7.666838+6-7.666838+6 | 0 | 0 | 1 | 647525 3 16 | |
| -7.677380+6-7.677380+6 | 0 | 0 | 1 | 277525 3 16 | |
| <hr/> | | | | | |
| -1.415376+7-1.415376+7 | 0 | 0 | 1 | 317525 3 17 | |
| -1.415576+7-1.415576+7 | 0 | 0 | 1 | 137525 3 17 | |
| <hr/> | | | | | |
| | | | | 7525 3 22 | Only in VII.1 |
| | | | | 7525 3 28 | Only in VII.1 |
| 0.000000+0-1.253580+5 | 0 | 0 | 1 | 1017525 3 51 | |
| 0.000000+0-1.254000+5 | 0 | 0 | 1 | 587525 3 51 | |
| <hr/> | | | | | |
| 0.000000+0-2.841000+5 | 0 | 0 | 1 | 1007525 3 52 | |
| 0.000000+0-2.841000+5 | 0 | 0 | 1 | 557525 3 52 | |
| <hr/> | | | | | |
| 0.000000+0-3.682000+5 | 0 | 0 | 1 | 1007525 3 53 | |
| 0.000000+0-3.682000+5 | 0 | 0 | 1 | 537525 3 53 | |
| <hr/> | | | | | |
| 0.000000+0-4.756000+5 | 0 | 0 | 1 | 997525 3 54 | |
| 0.000000+0-4.756000+5 | 0 | 0 | 1 | 517525 3 54 | |
| <hr/> | | | | | |
| 0.000000+0-5.469000+5 | 0 | 0 | 1 | 997525 3 55 | |
| 0.000000+0-5.469000+5 | 0 | 0 | 1 | 497525 3 55 | |
| <hr/> | | | | | |
| 0.000000+0-6.461190+5 | 0 | 0 | 1 | 987525 3 56 | |
| 0.000000+0-6.461000+5 | 0 | 0 | 1 | 477525 3 56 | |
| <hr/> | | | | | |
| 0.000000+0-6.970000+5 | 0 | 0 | 1 | 987525 3 57 | |
| 0.000000+0-6.970000+5 | 0 | 0 | 1 | 457525 3 57 | |
| <hr/> | | | | | |
| 0.000000+0-7.174320+5 | 0 | 0 | 1 | 987525 3 58 | |
| 0.000000+0-7.174000+5 | 0 | 0 | 1 | 447525 3 58 | |
| <hr/> | | | | | |
| 0.000000+0-7.574000+5 | 0 | 0 | 1 | 987525 3 59 | |
| 0.000000+0-7.574000+5 | 0 | 0 | 1 | 437525 3 59 | |
| <hr/> | | | | | |
| | | | | 7525 3 60 | Only in VII.1 |
| | | | | 7525 3 61 | Only in VII.1 |
| | | | | 7525 3 62 | Only in VII.1 |
| | | | | 7525 3 63 | Only in VII.1 |
| | | | | 7525 3 64 | Only in VII.1 |
| | | | | 7525 3 65 | Only in VII.1 |
| | | | | 7525 3 66 | Only in VII.1 |
| | | | | 7525 3 67 | Only in VII.1 |
| | | | | 7525 3 68 | Only in VII.1 |
| | | | | 7525 3 69 | Only in VII.1 |
| | | | | 7525 3 70 | Only in VII.1 |
| 0.000000+0-9.945760+5 | 0 | 0 | 1 | 967525 3 91 | |
| 0.000000+0-7.574000+5 | 0 | 0 | 1 | 437525 3 91 | |
| <hr/> | | | | | |
| 6.179358+6 6.179358+6 | 0 | 0 | 1 | 1077525 3102 | |
| 6.178000+6 6.178000+6 | 0 | 0 | 3 | 727525 3102 | |
| <hr/> | | | | | |
| | | | | 7525 3103 | Only in VII.1 |
| | | | | 7525 3104 | Only in VII.1 |
| | | | | 7525 3105 | Only in VII.1 |
| | | | | 7525 3107 | Only in VII.1 |
| 0.000000+0 1.833641+2 | 0 | 2 | 0 | 07525 4 2 | |
| 0.000000+0 1.833640+2 | 0 | 2 | 0 | 07525 4 2 | |
| <hr/> | | | | | |
| | | | | 7525 4 16 | Only in VII.0 |
| | | | | 7525 4 17 | Only in VII.0 |
| 0.000000+0 1.833641+2 | 0 | 2 | 0 | 07525 4 51 | |
| 0.000000+0 1.833640+2 | 0 | 2 | 0 | 07525 4 51 | |
| <hr/> | | | | | |
| 0.000000+0 1.833641+2 | 0 | 2 | 0 | 07525 4 52 | |
| 0.000000+0 1.833640+2 | 0 | 2 | 0 | 07525 4 52 | |
| <hr/> | | | | | |
| 0.000000+0 1.833641+2 | 0 | 2 | 0 | 07525 4 53 | |
| 0.000000+0 1.833640+2 | 0 | 2 | 0 | 07525 4 53 | |
| <hr/> | | | | | |
| 0.000000+0 1.833641+2 | 0 | 2 | 0 | 07525 4 54 | |
| 0.000000+0 1.833640+2 | 0 | 2 | 0 | 07525 4 54 | |
| <hr/> | | | | | |
| 0.000000+0 1.833641+2 | 0 | 2 | 0 | 07525 4 55 | |
| 0.000000+0 1.833640+2 | 0 | 2 | 0 | 07525 4 55 | |

| | | | | | |
|------------|------------|---|---|---|------------|
| 0.000000+0 | 1.833641+2 | 0 | 2 | 0 | 07525 4 56 |
| 0.000000+0 | 1.833640+2 | 0 | 2 | 0 | 07525 4 56 |
| 0.000000+0 | 1.833641+2 | 0 | 2 | 0 | 07525 4 57 |
| 0.000000+0 | 1.833640+2 | 0 | 2 | 0 | 07525 4 57 |
| 0.000000+0 | 1.833641+2 | 0 | 2 | 0 | 07525 4 58 |
| 0.000000+0 | 1.833640+2 | 0 | 2 | 0 | 07525 4 58 |
| 0.000000+0 | 1.833641+2 | 0 | 2 | 0 | 07525 4 59 |
| 0.000000+0 | 1.833640+2 | 0 | 2 | 0 | 07525 4 59 |

7525 4 60 Only in VII.1
7525 4 61 Only in VII.1
7525 4 62 Only in VII.1
7525 4 63 Only in VII.1
7525 4 64 Only in VII.1
7525 4 65 Only in VII.1
7525 4 66 Only in VII.1
7525 4 67 Only in VII.1
7525 4 68 Only in VII.1
7525 4 69 Only in VII.1
7525 4 70 Only in VII.1
7525 4 91 Only in VII.0
7525 5 16 Only in VII.0
7525 5 17 Only in VII.0
7525 5 91 Only in VII.0
7525 6 16 Only in VII.1
7525 6 17 Only in VII.1
7525 6 22 Only in VII.1
7525 6 28 Only in VII.1
7525 6 91 Only in VII.1
7525 6103 Only in VII.1
7525 6104 Only in VII.1
7525 6105 Only in VII.1
7525 6107 Only in VII.1

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| | | | | | |
|-------------|-------------|---|---|---|--------------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1077531 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 3 | 1217531 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1077531 3 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 3 | 1217531 3 2 |
| -7.356838+6 | -7.356838+6 | 0 | 0 | 1 | 667531 3 16 |
| -7.360380+6 | -7.360380+6 | 0 | 0 | 1 | 287531 3 16 |
| -1.353620+7 | -1.353620+7 | 0 | 0 | 1 | 337531 3 17 |
| -1.353876+7 | -1.353876+7 | 0 | 0 | 1 | 147531 3 17 |
| 0.000000+0 | -1.342430+5 | 0 | 0 | 1 | 1017531 3 51 |
| 0.000000+0 | -1.342000+5 | 0 | 0 | 1 | 657531 3 51 |
| 0.000000+0 | -2.062440+5 | 0 | 0 | 1 | 1007531 3 52 |
| 0.000000+0 | -2.062000+5 | 0 | 0 | 1 | 627531 3 52 |
| 0.000000+0 | -3.031300+5 | 0 | 0 | 1 | 1007531 3 53 |
| 0.000000+0 | -3.027000+5 | 0 | 0 | 1 | 607531 3 53 |
| 0.000000+0 | -3.900000+5 | 0 | 0 | 1 | 1007531 3 54 |
| 0.000000+0 | -3.900000+5 | 0 | 0 | 1 | 597531 3 54 |
| 0.000000+0 | -5.117660+5 | 0 | 0 | 1 | 997531 3 55 |
| 0.000000+0 | -5.090000+5 | 0 | 0 | 1 | 567531 3 55 |
| 0.000000+0 | -5.819900+5 | 0 | 0 | 1 | 997531 3 56 |
| 0.000000+0 | -5.116000+5 | 0 | 0 | 1 | 557531 3 56 |
| 0.000000+0 | -5.891360+5 | 0 | 0 | 1 | 997531 3 57 |
| 0.000000+0 | -5.890000+5 | 0 | 0 | 1 | 547531 3 57 |

| | | | | | | | |
|-----------------------|---|---|---|---------|------|----|---------------|
| 0.000000+0-6.183620+5 | 0 | 0 | 1 | 987531 | 3 | 58 | |
| 0.000000+0-6.183000+5 | 0 | 0 | 1 | 527531 | 3 | 58 | |
| 0.000000+0-6.255130+5 | 0 | 0 | 1 | 987531 | 3 | 59 | |
| 0.000000+0-6.255000+5 | 0 | 0 | 1 | 517531 | 3 | 59 | |
| 0.000000+0-6.472300+5 | 0 | 0 | 1 | 987531 | 3 | 60 | |
| 0.000000+0-6.473000+5 | 0 | 0 | 1 | 507531 | 3 | 60 | |
| 0.000000+0-6.857750+5 | 0 | 0 | 1 | 987531 | 3 | 61 | |
| 0.000000+0-6.857000+5 | 0 | 0 | 1 | 497531 | 3 | 61 | |
| 0.000000+0-7.187300+5 | 0 | 0 | 1 | 987531 | 3 | 62 | |
| 0.000000+0-7.430000+5 | 0 | 0 | 1 | 477531 | 3 | 62 | |
| 0.000000+0-7.430000+5 | 0 | 0 | 1 | 987531 | 3 | 63 | |
| 0.000000+0-7.710000+5 | 0 | 0 | 1 | 467531 | 3 | 63 | |
| 0.000000+0-7.678000+5 | 0 | 0 | 1 | 987531 | 3 | 64 | |
| 0.000000+0-7.729000+5 | 0 | 0 | 1 | 457531 | 3 | 64 | |
| 0.000000+0-7.729000+5 | 0 | 0 | 1 | 987531 | 3 | 65 | |
| 0.000000+0-8.166000+5 | 0 | 0 | 1 | 437531 | 3 | 65 | |
| 0.000000+0-8.165640+5 | 0 | 0 | 1 | 977531 | 3 | 66 | |
| 0.000000+0-8.266000+5 | 0 | 0 | 1 | 427531 | 3 | 66 | |
| | | | | 7531 | 3 | 67 | Only in VII.1 |
| | | | | 7531 | 3 | 68 | Only in VII.1 |
| | | | | 7531 | 3 | 69 | Only in VII.1 |
| | | | | 7531 | 3 | 70 | Only in VII.1 |
| 0.000000+0-7.957070+5 | 0 | 0 | 1 | 977531 | 3 | 91 | |
| 0.000000+0-8.266000+5 | 0 | 0 | 1 | 427531 | 3 | 91 | |
| 5.871753+6 5.871753+6 | 0 | 0 | 1 | 1077531 | 3102 | | |
| 5.873000+6 5.873000+6 | 0 | 0 | 3 | 727531 | 3102 | | |
| | | | | 7531 | 3103 | | Only in VII.1 |
| | | | | 7531 | 3104 | | Only in VII.1 |
| | | | | 7531 | 3105 | | Only in VII.1 |
| | | | | 7531 | 3107 | | Only in VII.1 |
| 0.000000+0 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 2 | |
| 0.000000+0 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 2 | |
| | | | | 7531 | 4 | 16 | Only in VII.0 |
| | | | | 7531 | 4 | 17 | Only in VII.0 |
| 0.000000+0 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 51 | |
| 0.000000+0 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 51 | |
| 0.000000+0 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 52 | |
| 0.000000+0 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 52 | |
| 0.000000+0 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 53 | |
| 0.000000+0 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 53 | |
| 0.000000+0 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 54 | |
| 0.000000+0 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 54 | |
| 0.000000+0 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 55 | |
| 0.000000+0 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 55 | |
| 0.000000+0 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 56 | |
| 0.000000+0 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 56 | |
| 0.000000+0 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 57 | |
| 0.000000+0 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 57 | |
| 0.000000+0 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 58 | |
| 0.000000+0 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 58 | |
| 0.000000+0 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 59 | |
| 0.000000+0 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 59 | |
| 0.000000+0 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 60 | |
| 0.000000+0 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 60 | |

| | | | | | | | |
|------------|------------|---|---|---|-------|---|----|
| 0.000000+0 | 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 61 |
| 0.000000+0 | 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 61 |
| 0.000000+0 | 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 62 |
| 0.000000+0 | 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 62 |
| 0.000000+0 | 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 63 |
| 0.000000+0 | 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 63 |
| 0.000000+0 | 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 64 |
| 0.000000+0 | 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 64 |
| 0.000000+0 | 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 65 |
| 0.000000+0 | 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 65 |
| 0.000000+0 | 1.853497+2 | 0 | 2 | 0 | 07531 | 4 | 66 |
| 0.000000+0 | 1.853500+2 | 0 | 2 | 0 | 07531 | 4 | 66 |

| | | | | | |
|------|------|----|------|----|-------|
| 7531 | 4 | 67 | Only | in | VII.1 |
| 7531 | 4 | 68 | Only | in | VII.1 |
| 7531 | 4 | 69 | Only | in | VII.1 |
| 7531 | 4 | 70 | Only | in | VII.1 |
| 7531 | 4 | 91 | Only | in | VII.0 |
| 7531 | 5 | 16 | Only | in | VII.0 |
| 7531 | 5 | 17 | Only | in | VII.0 |
| 7531 | 5 | 91 | Only | in | VII.0 |
| 7531 | 6 | 16 | Only | in | VII.1 |
| 7531 | 6 | 17 | Only | in | VII.1 |
| 7531 | 6 | 22 | Only | in | VII.1 |
| 7531 | 6 | 28 | Only | in | VII.1 |
| 7531 | 6 | 91 | Only | in | VII.1 |
| 7531 | 6103 | | Only | in | VII.1 |
| 7531 | 6104 | | Only | in | VII.1 |
| 7531 | 6105 | | Only | in | VII.1 |
| 7531 | 6107 | | Only | in | VII.1 |

77-Ir-191

| | | | | | | | | |
|-------------|-------------|------------|------------|-------------|-------------|------|---|----|
| -9.835711-4 | -6.465490-3 | 2.787750-3 | 7.048050-3 | -6.516570-3 | -7.813980-3 | 7725 | 4 | 58 |
| -9.835710-4 | -6.465490-3 | 2.787750-3 | 7.048050-3 | -6.516570-3 | -7.813980-3 | 7725 | 4 | 58 |

| | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------|---|----|
| 0.000000+0 | 9.612251-7 | 6.20970-15 | 2.176700+5 | 1.571530-6 | 2.86127-15 | 7725 | 6 | 28 |
| 0.000000+0 | 9.612250-7 | 6.20970-15 | 2.176700+5 | 1.571530-6 | 2.86127-15 | 7725 | 6 | 28 |

77-Ir-193

| | | | | | | | | |
|------------|------------|-------------|------------|------------|------------|------|---|----|
| 7.610600+5 | 1.072220-6 | -1.35833-14 | 8.562000+5 | 9.571741-7 | 1.01228-14 | 7731 | 6 | 91 |
| 7.610600+5 | 1.072220-6 | -1.35833-14 | 8.562000+5 | 9.571740-7 | 1.01228-14 | 7731 | 6 | 91 |

79-Au-197

80-Hg-196

| | | | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|------|---|---|
| -9.945219-1 | 9.772202-4 | -9.902681-1 | 5.801228-4 | -9.848078-1 | 3.966870-4 | 8025 | 4 | 2 |
| -9.945219-1 | 9.772203-4 | -9.902681-1 | 5.801228-4 | -9.848078-1 | 3.966870-4 | 8025 | 4 | 2 |

| | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------|---|----|
| 0.000000+0 | 1.232180-1 | 0.000000+0 | 2.334700-2 | 0.000000+0 | 9.927941-4 | 8025 | 4 | 69 |
| 0.000000+0 | 1.232180-1 | 0.000000+0 | 2.334700-2 | 0.000000+0 | 9.927940-4 | 8025 | 4 | 69 |

| | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------|---|----|
| 0.000000+0 | 9.813569-7 | 1.000500+6 | 2.710970-8 | 1.667500+6 | 1.01014-10 | 8025 | 5 | 22 |
| 0.000000+0 | 9.813570-7 | 1.000500+6 | 2.710970-8 | 1.667500+6 | 1.01014-10 | 8025 | 5 | 22 |

| | | | | | | | | |
|------------|------------|------------|------------|--|--|------|---|---|
| 5.618709+6 | 9.75584-41 | 6.243010+6 | 0.000000+0 | | | 8025 | 6 | 5 |
| 5.618709+6 | 9.75589-41 | 6.243010+6 | 0.000000+0 | | | 8025 | 6 | 5 |

80-Hg-198

| | | | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|------|---|---|
| -4.067366-1 | 9.941901-7 | -3.746066-1 | 1.925906-6 | -3.420201-1 | 2.481473-6 | 8031 | 4 | 2 |
| -4.067366-1 | 9.941902-7 | -3.746066-1 | 1.925906-6 | -3.420201-1 | 2.481473-6 | 8031 | 4 | 2 |

| | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------|---|---|
| 2.487337+6 | 8.52358-13 | 1.687000-4 | 3.482272+6 | 7.48192-11 | 9.867999-4 | 8031 | 6 | 5 |
| 2.487337+6 | 8.52358-13 | 1.687000-4 | 3.482272+6 | 7.48192-11 | 9.868000-4 | 8031 | 6 | 5 |

80-Hg-199

| | | | | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-----------------|------|----|---|--|
| 1.000000-5 | 9.594100-7 | 2.530000-2 | 9.592970-7 | 1.000000+0 | 9.549969-78034 | 3107 | | | |
| 1.000000-5 | 9.594100-7 | 2.530000-2 | 9.592970-7 | 1.000000+0 | 9.549970-78034 | 3107 | | | |
| ----- | | | | | | | | | |
| -8.090170-1 | 9.943413-4 | 7.880108-1 | 9.978116-4 | 7.660444-1 | 1.053366-38034 | 4 | 2 | | |
| -8.090170-1 | 9.943413-4 | 7.880108-1 | 9.978115-4 | 7.660444-1 | 1.053366-38034 | 4 | 2 | | |
| ----- | | | | | | | | | |
| 0.000000+0 | -5.750460-4 | 0.000000+0 | -9.832371-4 | 0.000000+0 | -3.217170-48034 | 4 | 63 | | |
| 0.000000+0 | -5.750460-4 | 0.000000+0 | -9.832370-4 | 0.000000+0 | -3.217170-48034 | 4 | 63 | | |
| ----- | | | | | | | | | |
| 7.337642+7 | 5.62668-40 | 0.000000+0 | | | | 8034 | 6 | 5 | |
| 7.337642+7 | 5.62667-40 | 0.000000+0 | | | | 8034 | 6 | 5 | |
| ----- | | | | | | | | | |
| 80-Hg-200 | | | | | | | | | |
| ***** | | | | | | | | | |
| 1.045285-1 | 7.703236-4 | 1.391731-1 | 8.803268-4 | 1.736482-1 | 9.843440-48037 | 4 | 2 | | |
| 1.045285-1 | 7.703236-4 | 1.391731-1 | 8.803268-4 | 1.736482-1 | 9.843441-48037 | 4 | 2 | | |
| ----- | | | | | | | | | |
| 0.000000+0 | 9.968051-7 | 1.000500+6 | 8.373070-9 | 1.322600+6 | 0.000000+08037 | 5 | 17 | | |
| 0.000000+0 | 9.968050-7 | 1.000500+6 | 8.373070-9 | 1.322600+6 | 0.000000+08037 | 5 | 17 | | |
| ----- | | | | | | | | | |
| 0.000000+0 | 9.869721-7 | 1.000500+6 | 1.879220-8 | 1.667500+6 | 0.000000+08037 | 5 | 22 | | |
| 0.000000+0 | 9.869720-7 | 1.000500+6 | 1.879220-8 | 1.667500+6 | 0.000000+08037 | 5 | 22 | | |
| ----- | | | | | | | | | |
| 7.338202+7 | 6.91148-41 | 0.000000+0 | | | | 8037 | 6 | 5 | |
| 7.338202+7 | 6.91150-41 | 0.000000+0 | | | | 8037 | 6 | 5 | |
| ----- | | | | | | | | | |
| 80-Hg-201 | | | | | | | | | |
| ***** | | | | | | | | | |
| 6.000000+6 | 9.823859-4 | 8.000000+6 | 5.203440-5 | 1.000000+7 | 1.688600-68040 | 3 | 59 | | |
| 6.000000+6 | 9.823860-4 | 8.000000+6 | 5.203440-5 | 1.000000+7 | 1.688600-68040 | 3 | 59 | | |
| ----- | | | | | | | | | |
| 3.090170-1 | 9.983974-4 | 3.420201-1 | 1.322084-3 | 3.746066-1 | 1.767220-38040 | 4 | 2 | | |
| 3.090170-1 | 9.983973-4 | 3.420201-1 | 1.322084-3 | 3.746066-1 | 1.767220-38040 | 4 | 2 | | |
| ----- | | | | | | | | | |
| 3.373420-3 | -9.918601-4 | -1.074490-4 | -9.875390-5 | -4.109810-7 | -1.801250-58040 | 4 | 52 | | |
| 3.373420-3 | -9.918600-4 | -1.074490-4 | -9.875390-5 | -4.109810-7 | -1.801250-58040 | 4 | 52 | | |
| ----- | | | | | | | | | |
| 1.079586+8 | 1.12104-44 | 0.000000+0 | | | | 8040 | 6 | 5 | |
| 1.079586+8 | 1.11010-44 | 0.000000+0 | | | | 8040 | 6 | 5 | |
| ----- | | | | | | | | | |
| 80-Hg-202 | | | | | | | | | |
| ***** | | | | | | | | | |
| -4.067366-1 | 2.353293-7 | -3.746066-1 | 9.943838-7 | -3.420201-1 | 1.954334-68043 | 4 | 2 | | |
| -4.067366-1 | 2.353293-7 | -3.746066-1 | 9.943837-7 | -3.420201-1 | 1.954334-68043 | 4 | 2 | | |
| ----- | | | | | | | | | |
| 9.929599-4 | -1.072450-3 | -5.161110-5 | -5.923050-5 | -7.322550-6 | -3.003070-68043 | 4 | 55 | | |
| 9.929600-4 | -1.072450-3 | -5.161110-5 | -5.923050-5 | -7.322550-6 | -3.003070-68043 | 4 | 55 | | |
| ----- | | | | | | | | | |
| 0.000000+0 | 9.704989-7 | 1.000500+6 | 3.711510-8 | 1.667500+6 | 5.257050-98043 | 5 | 22 | | |
| 0.000000+0 | 9.704990-7 | 1.000500+6 | 3.711510-8 | 1.667500+6 | 5.257050-98043 | 5 | 22 | | |
| ----- | | | | | | | | | |
| 4.301815+6 | 2.59989-40 | 4.779794+6 | 0.000000+0 | | | 8043 | 6 | 5 | |
| 4.301815+6 | 2.59988-40 | 4.779794+6 | 0.000000+0 | | | 8043 | 6 | 5 | |
| ----- | | | | | | | | | |
| 80-Hg-204 | | | | | | | | | |
| ***** | | | | | | | | | |
| 1.045285-1 | 7.703236-4 | 1.391731-1 | 8.803268-4 | 1.736482-1 | 9.843440-48049 | 4 | 2 | | |
| 1.045285-1 | 7.703236-4 | 1.391731-1 | 8.803268-4 | 1.736482-1 | 9.843441-48049 | 4 | 2 | | |
| ----- | | | | | | | | | |
| -5.841320-6 | -5.859780-7 | 9.922099-7 | -1.779000-7 | 2.601100-9 | 2.109980-98049 | 4 | 68 | | |
| -5.841320-6 | -5.859780-7 | 9.922100-7 | -1.779000-7 | 2.601100-9 | 2.109980-98049 | 4 | 68 | | |
| ----- | | | | | | | | | |
| 9.204521+7 | 9.98397-41 | 0.000000+0 | | | | 8049 | 6 | 5 | |
| 9.204521+7 | 9.98395-41 | 0.000000+0 | | | | 8049 | 6 | 5 | |
| ----- | | | | | | | | | |
| 82-Pb-204 | | | | | | | | | |
| ***** | | | | | | | | | |
| 82-Pb-206 | | | | | | | | | |
| ***** | | | | | | | | | |
| 0.000000+0 | 1.000000-4 | 0 | 0 | 2 | 08231 | 4 | 2 | | |
| 0.000000+0 | 1.000000-5 | 0 | 0 | 2 | 08231 | 4 | 2 | | |
| ----- | | | | | | | | | |
| 82-Pb-207 | | | | | | | | | |
| ***** | | | | | | | | | |
| 0.000000+0 | 1.000000-4 | 0 | 0 | 2 | 08234 | 4 | 2 | | |

| | | | | | | | |
|-----------------------|------------|------------|------------|------------|------------|---------------|------|
| 0.000000+0 | 1.000000-5 | 0 | 0 | 2 | 08234 | 4 | 2 |
| ----- | | | | | | | |
| 82-Pb-208 | | | | | | | |
| ***** | | | | | | | |
| 5.811660+6 | 0.000000+0 | 6.164421+6 | 5.06070-17 | 7.166301+6 | 3.09160-16 | 8237 | 3104 |
| 5.811660+6 | 0.000000+0 | 6.164422+6 | 5.06070-13 | 7.166298+6 | 1.34258-11 | 8237 | 3104 |
| ----- | | | | | | | |
| 5.811660+6 | 0.000000+0 | 8.750000+6 | 4.21530-16 | 9.000000+6 | 1.17090-12 | 8237 | 3650 |
| 5.811660+6 | 0.000000+0 | 8.750000+6 | 4.21532-12 | 9.000000+6 | 1.170860-8 | 8237 | 3650 |
| ----- | | | | | | | |
| 6.164422+6 | 0.000000+0 | 8.750000+6 | 2.96330-16 | 9.000000+6 | 1.50400-15 | 8237 | 3651 |
| 6.164422+6 | 0.000000+0 | 8.750000+6 | 2.96332-11 | 9.000000+6 | 1.50404-10 | 8237 | 3651 |
| ----- | | | | | | | |
| 7.166298+6 | 0.000000+0 | 8.750000+6 | 1.00000-26 | 9.000000+6 | 1.00000-26 | 8237 | 3652 |
| 7.166298+6 | 0.000000+0 | 8.750000+6 | 1.00000-20 | 9.000000+6 | 1.00000-20 | 8237 | 3652 |
| ----- | | | | | | | |
| 5.877853-1 | 9.921344-4 | 6.156615-1 | 1.314650-3 | 6.427876-1 | 1.896842-3 | 8237 | 4 2 |
| 5.877853-1 | 9.921345-4 | 6.156615-1 | 1.314650-3 | 6.427876-1 | 1.896842-3 | 8237 | 4 2 |
| ----- | | | | | | | |
| 1.305878+8 | 9.909987-9 | 0.000000+0 | | | | 8237 | 6 5 |
| 1.305878+8 | 9.80592-51 | 0.000000+0 | | | | 8237 | 6 5 |
| ----- | | | | | | | |
| 2.487934+5 | 9.650335-7 | 1.123846-2 | 3.483107+5 | 1.054284-6 | 1.458150-2 | 8237 | 6 16 |
| 2.487934+5 | 9.650334-7 | 1.123846-2 | 3.483107+5 | 1.054284-6 | 1.458150-2 | 8237 | 6 16 |
| ----- | | | | | | | |
| 9.454148+4 | 8.903161-7 | 3.868335-2 | 1.094691+5 | 9.907588-7 | 3.941522-2 | 8237 | 6 22 |
| 9.454148+4 | 8.903161-7 | 3.868335-2 | 1.094691+5 | 9.907589-7 | 3.941522-2 | 8237 | 6 22 |
| ----- | | | | | | | |
| 4.478281+5 | 9.669297-7 | 2.086118-2 | 5.473454+5 | 9.309394-7 | 2.275852-2 | 8237 | 6 24 |
| 4.478281+5 | 9.669298-7 | 2.086118-2 | 5.473454+5 | 9.309394-7 | 2.275852-2 | 8237 | 6 24 |
| ----- | | | | | | | |
| 0.000000+0 | 1.388497-6 | 3.000000+5 | 4.990476-7 | 5.000000+5 | 9.775860-7 | 8237 | 6 33 |
| 0.000000+0 | 1.388497-6 | 3.000000+5 | 4.990476-7 | 5.000000+5 | 9.775859-7 | 8237 | 6 33 |
| ----- | | | | | | | |
| 2.587451+5 | 9.807123-7 | 1.193717-2 | 2.985521+5 | 1.038554-6 | 1.242066-2 | 8237 | 6 41 |
| 2.587451+5 | 9.807124-7 | 1.193717-2 | 2.985521+5 | 1.038554-6 | 1.242066-2 | 8237 | 6 41 |
| ----- | | | | | | | |
| 2.487934+5 | 7.809822-7 | 5.648501-2 | 3.483107+5 | 9.584739-7 | 5.913704-2 | 8237 | 6 91 |
| 2.487934+5 | 7.809822-7 | 5.648501-2 | 3.483107+5 | 9.584740-7 | 5.913704-2 | 8237 | 6 91 |
| ----- | | | | | | | |
| 3.500000+5 | 4.019961-7 | 4.500000+5 | 9.726637-7 | 5.500000+5 | 8.244782-7 | 8237 | 6649 |
| 3.500000+5 | 4.019961-7 | 4.500000+5 | 9.726636-7 | 5.500000+5 | 8.244782-7 | 8237 | 6649 |
| ----- | | | | | | | |
| 8.328073+6 | 8.675260-7 | 7.647492-1 | 8.426630+6 | 9.747999-7 | 7.757668-1 | 8237 | 6749 |
| 8.328073+6 | 8.675260-7 | 7.647492-1 | 8.426630+6 | 9.748000-7 | 7.757668-1 | 8237 | 6749 |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0.000000+0 | 4.806178+6 | 7.08020-41 | 0.000000+0 | 8237 | 6849 |
| 0.000000+0 | 0.000000+0 | 0.000000+0 | 4.806178+6 | 7.08015-41 | 0.000000+0 | 8237 | 6849 |
| ----- | | | | | | | |
| 83-Bi-209 | | | | | | | |
| ***** | | | | | | | |
| 88-Ra-223 | | | | | | | |
| ***** | | | | | | | |
| 88-Ra-224 | | | | | | | |
| ***** | | | | | | | |
| 88-Ra-225 | | | | | | | |
| ***** | | | | | | | |
| 88-Ra-226 | | | | | | | |
| ***** | | | | | | | |
| 89-Ac-225 | | | | | | | |
| ***** | | | | | | | |
| | | | | | 8925 1452 | Only in VII.1 | |
| | | | | | 8925 1455 | Only in VII.1 | |
| | | | | | 8925 1456 | Only in VII.1 | |
| 1.000000-5 | 4.500000-1 | 0 | 0 | 0 | 08925 | 2151 | |
| 1.000000-5 | 6.000000-1 | 0 | 0 | 0 | 08925 | 2151 | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1198925 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 948925 | 3 | 1 |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1078925 | 3 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 388925 | 3 | 2 |
| ----- | | | | | | | |
| 0.000000+0-2.994000+4 | | 0 | 0 | 1 | 828925 | 3 | 4 |
| 0.000000+0-3.999990+4 | | 0 | 0 | 1 | 278925 | 3 | 4 |

| | | | | | |
|------------------------|---|---|---|--------------|---------------|
| -6.667820+6-6.667820+6 | 0 | 0 | 1 | 288925 3 16 | |
| -6.664690+6-6.664690+6 | 0 | 0 | 1 | 138925 3 16 | |
| -1.233080+7-1.233080+7 | 0 | 0 | 1 | 168925 3 17 | |
| -1.234240+7-1.234240+7 | 0 | 0 | 1 | 88925 3 17 | |
| | | | | 8925 3 18 | Only in VII.1 |
| | | | | 8925 3 19 | Only in VII.1 |
| | | | | 8925 3 20 | Only in VII.1 |
| | | | | 8925 3 21 | Only in VII.1 |
| -1.919720+7-1.919720+7 | 0 | 0 | 1 | 28925 3 37 | |
| -1.920610+7-1.920610+7 | 0 | 0 | 1 | 28925 3 37 | |
| | | | | 8925 3 38 | Only in VII.1 |
| 0.000000+0-2.994000+4 | 0 | 0 | 1 | 808925 3 51 | |
| 0.000000+0-3.999990+4 | 0 | 0 | 1 | 278925 3 51 | |
| | | | | 8925 3 52 | Only in VII.1 |
| | | | | 8925 3 53 | Only in VII.1 |
| | | | | 8925 3 54 | Only in VII.1 |
| | | | | 8925 3 55 | Only in VII.1 |
| | | | | 8925 3 56 | Only in VII.1 |
| | | | | 8925 3 57 | Only in VII.1 |
| | | | | 8925 3 58 | Only in VII.1 |
| | | | | 8925 3 59 | Only in VII.1 |
| | | | | 8925 3 60 | Only in VII.1 |
| | | | | 8925 3 61 | Only in VII.1 |
| | | | | 8925 3 62 | Only in VII.1 |
| | | | | 8925 3 63 | Only in VII.1 |
| | | | | 8925 3 64 | Only in VII.1 |
| 0.000000+0-1.032260+5 | 0 | 0 | 1 | 748925 3 91 | |
| 0.000000+0-6.469990+4 | 0 | 0 | 1 | 268925 3 91 | |
| 5.399320+6 5.399320+6 | 0 | 0 | 1 | 1078925 3102 | |
| 5.383690+6 5.383690+6 | 0 | 0 | 1 | 388925 3102 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 1048925 4 2 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 368925 4 2 | |
| | | | | 8925 4 16 | Only in VII.0 |
| | | | | 8925 4 17 | Only in VII.0 |
| | | | | 8925 4 18 | Only in VII.1 |
| | | | | 8925 4 37 | Only in VII.0 |
| | | | | 8925 4 51 | Only in VII.0 |
| | | | | 8925 4 91 | Only in VII.0 |
| | | | | 8925 5 16 | Only in VII.0 |
| | | | | 8925 5 17 | Only in VII.0 |
| | | | | 8925 5 18 | Only in VII.1 |
| | | | | 8925 5 37 | Only in VII.0 |
| | | | | 8925 5 91 | Only in VII.0 |
| | | | | 8925 6 16 | Only in VII.1 |
| | | | | 8925 6 17 | Only in VII.1 |
| | | | | 8925 6 37 | Only in VII.1 |
| | | | | 8925 6 51 | Only in VII.1 |
| | | | | 8925 6 52 | Only in VII.1 |
| | | | | 8925 6 53 | Only in VII.1 |
| | | | | 8925 6 54 | Only in VII.1 |
| | | | | 8925 6 55 | Only in VII.1 |
| | | | | 8925 6 56 | Only in VII.1 |
| | | | | 8925 6 57 | Only in VII.1 |
| | | | | 8925 6 58 | Only in VII.1 |
| | | | | 8925 6 59 | Only in VII.1 |
| | | | | 8925 6 60 | Only in VII.1 |
| | | | | 8925 6 61 | Only in VII.1 |
| | | | | 8925 6 62 | Only in VII.1 |
| | | | | 8925 6 63 | Only in VII.1 |
| | | | | 8925 6 64 | Only in VII.1 |
| | | | | 8925 6 91 | Only in VII.1 |
| | | | | 8925 6102 | Only in VII.1 |
| 89-Ac-226 | | | | | |
| ***** | | | | | |
| | | | | 8928 1452 | Only in VII.1 |
| | | | | 8928 1455 | Only in VII.1 |
| | | | | 8928 1456 | Only in VII.1 |

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|------------------------|------------|---|---|---|---------|------|----|---------------|
| 1.000000-5 | 3.000000-1 | 0 | 0 | 0 | 08928 | 2151 | | |
| 1.000000-5 | 4.000000-1 | 0 | 0 | 0 | 08928 | 2151 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1118928 | 3 | 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 918928 | 3 | 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1118928 | 3 | 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 378928 | 3 | 2 | |
| 0.000000+0-5.100000+3 | | 0 | 0 | 1 | 788928 | 3 | 4 | |
| 0.000000+0-2.900000+5 | | 0 | 0 | 1 | 238928 | 3 | 4 | |
| -5.399320+6-5.399320+6 | | 0 | 0 | 1 | 308928 | 3 | 16 | |
| -5.396690+6-5.396690+6 | | 0 | 0 | 1 | 148928 | 3 | 16 | |
| -1.206710+7-1.206710+7 | | 0 | 0 | 1 | 178928 | 3 | 17 | |
| -1.206140+7-1.206140+7 | | 0 | 0 | 1 | 88928 | 3 | 17 | |
| | | | | | 8928 | 3 | 18 | Only in VII.1 |
| | | | | | 8928 | 3 | 19 | Only in VII.1 |
| | | | | | 8928 | 3 | 20 | Only in VII.1 |
| | | | | | 8928 | 3 | 21 | Only in VII.1 |
| -1.773020+7-1.773020+7 | | 0 | 0 | 1 | 58928 | 3 | 37 | |
| -1.773910+7-1.773910+7 | | 0 | 0 | 1 | 38928 | 3 | 37 | |
| | | | | | 8928 | 3 | 38 | Only in VII.1 |
| | | | | | 8928 | 3 | 51 | Only in VII.1 |
| | | | | | 8928 | 3 | 52 | Only in VII.1 |
| | | | | | 8928 | 3 | 53 | Only in VII.1 |
| | | | | | 8928 | 3 | 54 | Only in VII.1 |
| | | | | | 8928 | 3 | 55 | Only in VII.1 |
| | | | | | 8928 | 3 | 56 | Only in VII.1 |
| | | | | | 8928 | 3 | 57 | Only in VII.1 |
| 0.000000+0-1.104910+5 | | 0 | 0 | 1 | 648928 | 3 | 91 | |
| 0.000000+0-2.900000+5 | | 0 | 0 | 1 | 238928 | 3 | 91 | |
| 6.530590+6 | 6.530590+6 | 0 | 0 | 1 | 1008928 | 3102 | | |
| 6.527690+6 | 6.527690+6 | 0 | 0 | 1 | 378928 | 3102 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 978928 | 4 | 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 368928 | 4 | 2 | |
| | | | | | 8928 | 4 | 16 | Only in VII.0 |
| | | | | | 8928 | 4 | 17 | Only in VII.0 |
| | | | | | 8928 | 4 | 18 | Only in VII.1 |
| | | | | | 8928 | 4 | 37 | Only in VII.0 |
| | | | | | 8928 | 4 | 91 | Only in VII.0 |
| | | | | | 8928 | 5 | 16 | Only in VII.0 |
| | | | | | 8928 | 5 | 17 | Only in VII.0 |
| | | | | | 8928 | 5 | 18 | Only in VII.1 |
| | | | | | 8928 | 5 | 37 | Only in VII.0 |
| | | | | | 8928 | 5 | 91 | Only in VII.0 |
| | | | | | 8928 | 6 | 16 | Only in VII.1 |
| | | | | | 8928 | 6 | 17 | Only in VII.1 |
| | | | | | 8928 | 6 | 37 | Only in VII.1 |
| | | | | | 8928 | 6 | 51 | Only in VII.1 |
| | | | | | 8928 | 6 | 52 | Only in VII.1 |
| | | | | | 8928 | 6 | 53 | Only in VII.1 |
| | | | | | 8928 | 6 | 54 | Only in VII.1 |
| | | | | | 8928 | 6 | 55 | Only in VII.1 |
| | | | | | 8928 | 6 | 56 | Only in VII.1 |
| | | | | | 8928 | 6 | 57 | Only in VII.1 |
| | | | | | 8928 | 6 | 91 | Only in VII.1 |
| | | | | | 8928 | 6102 | | Only in VII.1 |
| 89-Ac-227 | | | | | | | | |
| ***** | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 58931 | 1452 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 08931 | 1452 | | |
| | | | | | 8931 | 1455 | | Only in VII.1 |
| | | | | | 8931 | 1456 | | Only in VII.1 |
| 1.000000-5 | 6.000000-1 | 0 | 0 | 0 | 08931 | 2151 | | |
| 1.000000-5 | 3.600000+1 | 0 | 0 | 0 | 08931 | 2151 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1278931 | 3 | 1 | |

| | | | | | | | | |
|-------------|-------------|---|---|---|---------|---|-----|---------------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1008931 | 3 | 1 | |
| ----- | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1268931 | 3 | 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 478931 | 3 | 2 | |
| ----- | | | | | | | | |
| 0.000000+0 | -2.737000+4 | 0 | 0 | 1 | 908931 | 3 | 4 | |
| 0.000000+0 | -2.740000+4 | 0 | 0 | 1 | 408931 | 3 | 4 | |
| ----- | | | | | | | | |
| -6.530590+6 | -6.530590+6 | 0 | 0 | 1 | 288931 | 3 | 16 | |
| -6.522690+6 | -6.522690+6 | 0 | 0 | 1 | 128931 | 3 | 16 | |
| ----- | | | | | | | | |
| -1.192990+7 | -1.192990+7 | 0 | 0 | 1 | 178931 | 3 | 17 | |
| -1.191940+7 | -1.191940+7 | 0 | 0 | 1 | 78931 | 3 | 17 | |
| ----- | | | | | | | | |
| 1.790000+8 | 1.790000+8 | 0 | 0 | 1 | 768931 | 3 | 18 | |
| 1.999990+8 | 1.999990+8 | 0 | 0 | 1 | 348931 | 3 | 18 | |
| ----- | | | | | | | | |
| | | | | | 8931 | 3 | 19 | Only in VII.1 |
| | | | | | 8931 | 3 | 20 | Only in VII.1 |
| | | | | | 8931 | 3 | 21 | Only in VII.1 |
| -1.859770+7 | -1.859770+7 | 0 | 0 | 1 | 38931 | 3 | 37 | |
| -1.858410+7 | -1.858410+7 | 0 | 0 | 1 | 28931 | 3 | 37 | |
| ----- | | | | | | | | |
| | | | | | 8931 | 3 | 38 | Only in VII.1 |
| 0.000000+0 | -2.737000+4 | 0 | 0 | 1 | 878931 | 3 | 51 | |
| 0.000000+0 | -2.740000+4 | 0 | 0 | 1 | 408931 | 3 | 51 | |
| ----- | | | | | | | | |
| 0.000000+0 | -2.998000+4 | 0 | 0 | 1 | 858931 | 3 | 52 | |
| 0.000000+0 | -3.000000+4 | 0 | 0 | 1 | 398931 | 3 | 52 | |
| ----- | | | | | | | | |
| 0.000000+0 | -4.635000+4 | 0 | 0 | 1 | 848931 | 3 | 53 | |
| 0.000000+0 | -4.639990+4 | 0 | 0 | 1 | 378931 | 3 | 53 | |
| ----- | | | | | | | | |
| 0.000000+0 | -7.414000+4 | 0 | 0 | 1 | 818931 | 3 | 54 | |
| 0.000000+0 | -7.409990+4 | 0 | 0 | 1 | 368931 | 3 | 54 | |
| ----- | | | | | | | | |
| 0.000000+0 | -8.455000+4 | 0 | 0 | 1 | 808931 | 3 | 55 | |
| 0.000000+0 | -8.459990+4 | 0 | 0 | 1 | 348931 | 3 | 55 | |
| ----- | | | | | | | | |
| 0.000000+0 | -1.099400+5 | 0 | 0 | 1 | 788931 | 3 | 56 | |
| 0.000000+0 | -1.100000+5 | 0 | 0 | 1 | 328931 | 3 | 56 | |
| ----- | | | | | | | | |
| 0.000000+0 | -1.268600+5 | 0 | 0 | 1 | 768931 | 3 | 57 | |
| 0.000000+0 | -1.269000+5 | 0 | 0 | 1 | 318931 | 3 | 57 | |
| ----- | | | | | | | | |
| 0.000000+0 | -1.480000+5 | 0 | 0 | 1 | 748931 | 3 | 58 | |
| 0.000000+0 | -1.874000+5 | 0 | 0 | 1 | 308931 | 3 | 58 | |
| ----- | | | | | | | | |
| 0.000000+0 | -1.600000+5 | 0 | 0 | 1 | 738931 | 3 | 59 | |
| 0.000000+0 | -2.109000+5 | 0 | 0 | 1 | 288931 | 3 | 59 | |
| ----- | | | | | | | | |
| | | | | | 8931 | 3 | 60 | Only in VII.1 |
| | | | | | 8931 | 3 | 61 | Only in VII.1 |
| | | | | | 8931 | 3 | 62 | Only in VII.1 |
| | | | | | 8931 | 3 | 63 | Only in VII.1 |
| | | | | | 8931 | 3 | 64 | Only in VII.1 |
| | | | | | 8931 | 3 | 65 | Only in VII.1 |
| | | | | | 8931 | 3 | 66 | Only in VII.1 |
| | | | | | 8931 | 3 | 67 | Only in VII.1 |
| | | | | | 8931 | 3 | 68 | Only in VII.1 |
| | | | | | 8931 | 3 | 69 | Only in VII.1 |
| | | | | | 8931 | 3 | 70 | Only in VII.1 |
| 0.000000+0 | -1.056820+5 | 0 | 0 | 1 | 798931 | 3 | 91 | |
| 0.000000+0 | -2.730000+5 | 0 | 0 | 1 | 278931 | 3 | 91 | |
| ----- | | | | | | | | |
| 5.026280+6 | 5.026280+6 | 0 | 0 | 1 | 1138931 | 3 | 102 | |
| 5.035690+6 | 5.035690+6 | 0 | 0 | 1 | 478931 | 3 | 102 | |
| ----- | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1108931 | 4 | 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 478931 | 4 | 2 | |
| ----- | | | | | | | | |
| | | | | | 8931 | 4 | 16 | Only in VII.0 |
| | | | | | 8931 | 4 | 17 | Only in VII.0 |
| 0.000000+0 | 2.250770+2 | 1 | 1 | 0 | 08931 | 4 | 18 | |
| 0.000000+0 | 2.250770+2 | 0 | 1 | 0 | 08931 | 4 | 18 | |

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|------------------------|------------|---|---|---|-------------|--------------|------|----------|
| | | | | | | 8931 4 37 | Only | in VII.0 |
| | | | | | | 8931 4 51 | Only | in VII.0 |
| | | | | | | 8931 4 52 | Only | in VII.0 |
| | | | | | | 8931 4 53 | Only | in VII.0 |
| | | | | | | 8931 4 54 | Only | in VII.0 |
| | | | | | | 8931 4 55 | Only | in VII.0 |
| | | | | | | 8931 4 56 | Only | in VII.0 |
| | | | | | | 8931 4 57 | Only | in VII.0 |
| | | | | | | 8931 4 58 | Only | in VII.0 |
| | | | | | | 8931 4 59 | Only | in VII.0 |
| | | | | | | 8931 4 91 | Only | in VII.0 |
| | | | | | | 8931 5 16 | Only | in VII.0 |
| | | | | | | 8931 5 17 | Only | in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 28931 5 18 | | | |
| -2.000000+7 | 0.000000+0 | 0 | 7 | 1 | 28931 5 18 | | | |
| | | | | | | 8931 5 37 | Only | in VII.0 |
| | | | | | | 8931 5 91 | Only | in VII.0 |
| | | | | | | 8931 6 16 | Only | in VII.1 |
| | | | | | | 8931 6 17 | Only | in VII.1 |
| | | | | | | 8931 6 37 | Only | in VII.1 |
| | | | | | | 8931 6 51 | Only | in VII.1 |
| | | | | | | 8931 6 52 | Only | in VII.1 |
| | | | | | | 8931 6 53 | Only | in VII.1 |
| | | | | | | 8931 6 54 | Only | in VII.1 |
| | | | | | | 8931 6 55 | Only | in VII.1 |
| | | | | | | 8931 6 56 | Only | in VII.1 |
| | | | | | | 8931 6 57 | Only | in VII.1 |
| | | | | | | 8931 6 58 | Only | in VII.1 |
| | | | | | | 8931 6 59 | Only | in VII.1 |
| | | | | | | 8931 6 60 | Only | in VII.1 |
| | | | | | | 8931 6 61 | Only | in VII.1 |
| | | | | | | 8931 6 62 | Only | in VII.1 |
| | | | | | | 8931 6 63 | Only | in VII.1 |
| | | | | | | 8931 6 64 | Only | in VII.1 |
| | | | | | | 8931 6 65 | Only | in VII.1 |
| | | | | | | 8931 6 66 | Only | in VII.1 |
| | | | | | | 8931 6 67 | Only | in VII.1 |
| | | | | | | 8931 6 68 | Only | in VII.1 |
| | | | | | | 8931 6 69 | Only | in VII.1 |
| | | | | | | 8931 6 70 | Only | in VII.1 |
| | | | | | | 8931 6 91 | Only | in VII.1 |
| | | | | | | 8931 6102 | Only | in VII.1 |
| 90-Th-227 | | | | | | | | |
| ***** | | | | | | | | |
| | | | | | | 9025 1458 | Only | in VII.1 |
| 1.000000-5 | 6.500000-1 | 0 | 0 | 0 | 09025 2151 | | | |
| 1.000000-5 | 4.500000-1 | 0 | 0 | 0 | 09025 2151 | | | |
| | | | | | | 1139025 3 1 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 929025 3 1 | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | | | | |
| | | | | | | 1129025 3 2 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 379025 3 2 | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | | | | |
| | | | | | | 829025 3 4 | | |
| 0.000000+0-9.290000+3 | | 0 | 0 | 1 | 279025 3 4 | | | |
| 0.000000+0-2.450000+4 | | 0 | 0 | 1 | | | | |
| | | | | | | 309025 3 16 | | |
| -5.462200+6-5.462200+6 | | 0 | 0 | 1 | 149025 3 16 | | | |
| -5.454390+6-5.454390+6 | | 0 | 0 | 1 | | | | |
| | | | | | | 169025 3 17 | | |
| -1.264670+7-1.264670+7 | | 0 | 0 | 1 | 89025 3 17 | | | |
| -1.264010+7-1.264010+7 | | 0 | 0 | 1 | | | | |
| | | | | | | 1059025 3 18 | | |
| 1.822860+8 | 1.822860+8 | 0 | 0 | 1 | 349025 3 18 | | | |
| 1.999990+8 | 1.999990+8 | 0 | 0 | 1 | | | | |
| | | | | | | 9025 3 19 | Only | in VII.1 |
| | | | | | | 9025 3 20 | Only | in VII.1 |
| | | | | | | 9025 3 21 | Only | in VII.1 |
| | | | | | | 49025 3 37 | | |
| -1.840410+7-1.840410+7 | | 0 | 0 | 1 | 29025 3 37 | | | |
| -1.840180+7-1.840180+7 | | 0 | 0 | 1 | | | | |
| | | | | | | 9025 3 38 | Only | in VII.1 |

| | | | | | |
|------------------------|---|---|---|-------------------------|-------------------------|
| | | | | | 9025 3 51 Only in VII.1 |
| | | | | | 9025 3 52 Only in VII.1 |
| | | | | | 9025 3 53 Only in VII.1 |
| | | | | | 9025 3 54 Only in VII.1 |
| | | | | | 9025 3 55 Only in VII.1 |
| | | | | | 9025 3 56 Only in VII.1 |
| | | | | | 9025 3 57 Only in VII.1 |
| | | | | | 9025 3 58 Only in VII.1 |
| | | | | | 9025 3 59 Only in VII.1 |
| | | | | | 9025 3 60 Only in VII.1 |
| | | | | | 9025 3 61 Only in VII.1 |
| | | | | | 9025 3 62 Only in VII.1 |
| | | | | | 9025 3 63 Only in VII.1 |
| | | | | | 9025 3 64 Only in VII.1 |
| 0.000000+0-1.104890+5 | 0 | 0 | 1 | 689025 3 91 | |
| 0.000000+0-2.450000+4 | 0 | 0 | 1 | 279025 3 91 | |
| ----- | | | | | |
| 7.105300+6 7.105300+6 | 0 | 0 | 1 | 1059025 3102 | |
| 7.128690+6 7.128690+6 | 0 | 0 | 1 | 379025 3102 | |
| ----- | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 1029025 4 2 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 359025 4 2 | |
| ----- | | | | | |
| | | | | 9025 4 16 Only in VII.0 | |
| | | | | 9025 4 17 Only in VII.0 | |
| 0.000000+0 2.250770+2 | 1 | 1 | 0 | 09025 4 18 | |
| 0.000000+0 2.250770+2 | 0 | 1 | 0 | 09025 4 18 | |
| ----- | | | | | |
| | | | | 9025 4 37 Only in VII.0 | |
| | | | | 9025 4 91 Only in VII.0 | |
| | | | | 9025 5 16 Only in VII.0 | |
| | | | | 9025 5 17 Only in VII.0 | |
| 0.000000+0 0.000000+0 | 0 | 1 | 1 | 29025 5 18 | |
| -2.000000+7 0.000000+0 | 0 | 7 | 1 | 29025 5 18 | |
| ----- | | | | | |
| | | | | 9025 5 37 Only in VII.0 | |
| | | | | 9025 5 91 Only in VII.0 | |
| | | | | 9025 5455 Only in VII.1 | |
| | | | | 9025 6 16 Only in VII.1 | |
| | | | | 9025 6 17 Only in VII.1 | |
| | | | | 9025 6 37 Only in VII.1 | |
| | | | | 9025 6 51 Only in VII.1 | |
| | | | | 9025 6 52 Only in VII.1 | |
| | | | | 9025 6 53 Only in VII.1 | |
| | | | | 9025 6 54 Only in VII.1 | |
| | | | | 9025 6 55 Only in VII.1 | |
| | | | | 9025 6 56 Only in VII.1 | |
| | | | | 9025 6 57 Only in VII.1 | |
| | | | | 9025 6 58 Only in VII.1 | |
| | | | | 9025 6 59 Only in VII.1 | |
| | | | | 9025 6 60 Only in VII.1 | |
| | | | | 9025 6 61 Only in VII.1 | |
| | | | | 9025 6 62 Only in VII.1 | |
| | | | | 9025 6 63 Only in VII.1 | |
| | | | | 9025 6 64 Only in VII.1 | |
| | | | | 9025 6 91 Only in VII.1 | |
| | | | | 9025 6102 Only in VII.1 | |
| ----- | | | | | |
| 90-Th-228 | | | | | |
| ***** | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 59028 1452 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 79028 1452 | |
| ----- | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 59028 1455 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 49028 1455 | |
| ----- | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 29028 1456 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 79028 1456 | |
| ----- | | | | | |
| 9.022800+4 1.000000+0 | 0 | 0 | 2 | 09028 2151 | |
| 9.022800+4 1.000000+0 | 0 | 0 | 1 | 09028 2151 | |
| ----- | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 1219028 3 1 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 2 | 909028 3 1 | |
| ----- | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 2 | 1209028 3 2 | |

| | | | | | |
|------------------------|---|---|---|--------------|---------------|
| 0.000000+0 0.000000+0 | 0 | 0 | 2 | 519028 3 2 | |
| 0.000000+0-5.775900+4 | 0 | 0 | 1 | 939028 3 4 | |
| 0.000000+0-5.759990+4 | 0 | 0 | 1 | 359028 3 4 | |
| -7.105300+6-7.105300+6 | 0 | 0 | 1 | 279028 3 16 | |
| -7.119980+6-7.119980+6 | 0 | 0 | 1 | 109028 3 16 | |
| -1.256750+7-1.256750+7 | 0 | 0 | 1 | 169028 3 17 | |
| -1.257440+7-1.257440+7 | 0 | 0 | 1 | 69028 3 17 | |
| 1.840000+8 1.840000+8 | 0 | 0 | 1 | 949028 3 18 | |
| 1.849990+8 1.849990+8 | 0 | 0 | 2 | 319028 3 18 | |
| | | | | 9028 3 19 | Only in VII.1 |
| | | | | 9028 3 20 | Only in VII.1 |
| | | | | 9028 3 21 | Only in VII.1 |
| | | | | 9028 3 38 | Only in VII.1 |
| 0.000000+0-5.775900+4 | 0 | 0 | 1 | 929028 3 51 | |
| 0.000000+0-5.759990+4 | 0 | 0 | 1 | 239028 3 51 | |
| 0.000000+0-1.868230+5 | 0 | 0 | 1 | 869028 3 52 | |
| 0.000000+0-1.869000+5 | 0 | 0 | 1 | 199028 3 52 | |
| 0.000000+0-3.280030+5 | 0 | 0 | 1 | 829028 3 53 | |
| 0.000000+0-3.280000+5 | 0 | 0 | 1 | 179028 3 53 | |
| 0.000000+0-3.781790+5 | 0 | 0 | 1 | 819028 3 54 | |
| 0.000000+0-3.960990+5 | 0 | 0 | 1 | 179028 3 54 | |
| 0.000000+0-3.960780+5 | 0 | 0 | 1 | 809028 3 55 | |
| 0.000000+0-5.192990+5 | 0 | 0 | 1 | 169028 3 55 | |
| 0.000000+0-5.191920+5 | 0 | 0 | 1 | 779028 3 56 | |
| 0.000000+0-8.316990+5 | 0 | 0 | 1 | 149028 3 56 | |
| 0.000000+0-6.225000+5 | 0 | 0 | 1 | 759028 3 57 | |
| 0.000000+0-8.745990+5 | 0 | 0 | 1 | 149028 3 57 | |
| 0.000000+0-6.956000+5 | 0 | 0 | 1 | 749028 3 58 | |
| 0.000000+0-9.440990+5 | 0 | 0 | 1 | 149028 3 58 | |
| 0.000000+0-8.318230+5 | 0 | 0 | 1 | 719028 3 59 | |
| 0.000000+0-9.519990+5 | 0 | 0 | 1 | 149028 3 59 | |
| 0.000000+0-8.744730+5 | 0 | 0 | 1 | 709028 3 60 | |
| 0.000000+0-9.687980+5 | 0 | 0 | 1 | 149028 3 60 | |
| 0.000000+0-9.118000+5 | 0 | 0 | 1 | 689028 3 61 | |
| 0.000000+0-1.016000+6 | 0 | 0 | 1 | 139028 3 61 | |
| 0.000000+0-9.208000+5 | 0 | 0 | 1 | 679028 3 62 | |
| 0.000000+0-1.022400+6 | 0 | 0 | 1 | 139028 3 62 | |
| | | | | 9028 3 63 | Only in VII.1 |
| | | | | 9028 3 64 | Only in VII.1 |
| | | | | 9028 3 65 | Only in VII.1 |
| | | | | 9028 3 66 | Only in VII.1 |
| | | | | 9028 3 67 | Only in VII.1 |
| | | | | 9028 3 68 | Only in VII.1 |
| | | | | 9028 3 69 | Only in VII.1 |
| | | | | 9028 3 70 | Only in VII.1 |
| | | | | 9028 3 71 | Only in VII.1 |
| | | | | 9028 3 72 | Only in VII.1 |
| | | | | 9028 3 73 | Only in VII.1 |
| | | | | 9028 3 74 | Only in VII.1 |
| | | | | 9028 3 75 | Only in VII.1 |
| | | | | 9028 3 76 | Only in VII.1 |
| | | | | 9028 3 77 | Only in VII.1 |
| | | | | 9028 3 78 | Only in VII.1 |
| | | | | 9028 3 79 | Only in VII.1 |
| 0.000000+0-1.104870+5 | 0 | 0 | 1 | 909028 3 91 | |
| 0.000000+0-1.025000+6 | 0 | 0 | 1 | 139028 3 91 | |
| 5.256990+6 5.256990+6 | 0 | 0 | 2 | 1149028 3102 | |

| | | | | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|------|------|----------|
| 5.248790+6 | 5.248790+6 | 0 | 0 | 2 | 509028 | 3102 | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1179028 | 4 | 2 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 309028 | 4 | 2 | | |
| | | | | | | | | | |
| | | | | | 9028 | 4 | 16 | Only | in VII.0 |
| | | | | | 9028 | 4 | 17 | Only | in VII.0 |
| 0.000000+0 | 2.260700+2 | 1 | 1 | 0 | 09028 | 4 | 18 | | |
| 0.000000+0 | 2.260700+2 | 0 | 1 | 0 | 09028 | 4 | 18 | | |
| | | | | | | | | | |
| | | | | | 9028 | 4 | 51 | Only | in VII.0 |
| | | | | | 9028 | 4 | 52 | Only | in VII.0 |
| | | | | | 9028 | 4 | 53 | Only | in VII.0 |
| | | | | | 9028 | 4 | 54 | Only | in VII.0 |
| | | | | | 9028 | 4 | 55 | Only | in VII.0 |
| | | | | | 9028 | 4 | 56 | Only | in VII.0 |
| | | | | | 9028 | 4 | 57 | Only | in VII.0 |
| | | | | | 9028 | 4 | 58 | Only | in VII.0 |
| | | | | | 9028 | 4 | 59 | Only | in VII.0 |
| | | | | | 9028 | 4 | 60 | Only | in VII.0 |
| | | | | | 9028 | 4 | 61 | Only | in VII.0 |
| | | | | | 9028 | 4 | 62 | Only | in VII.0 |
| | | | | | 9028 | 4 | 91 | Only | in VII.0 |
| | | | | | 9028 | 5 | 16 | Only | in VII.0 |
| | | | | | 9028 | 5 | 17 | Only | in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29028 | 5 | 18 | | |
| -2.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29028 | 5 | 18 | | |
| | | | | | | | | | |
| | | | | | 9028 | 5 | 91 | Only | in VII.0 |
| | | | | | 9028 | 6 | 16 | Only | in VII.1 |
| | | | | | 9028 | 6 | 17 | Only | in VII.1 |
| | | | | | 9028 | 6 | 51 | Only | in VII.1 |
| | | | | | 9028 | 6 | 52 | Only | in VII.1 |
| | | | | | 9028 | 6 | 53 | Only | in VII.1 |
| | | | | | 9028 | 6 | 54 | Only | in VII.1 |
| | | | | | 9028 | 6 | 55 | Only | in VII.1 |
| | | | | | 9028 | 6 | 56 | Only | in VII.1 |
| | | | | | 9028 | 6 | 57 | Only | in VII.1 |
| | | | | | 9028 | 6 | 58 | Only | in VII.1 |
| | | | | | 9028 | 6 | 59 | Only | in VII.1 |
| | | | | | 9028 | 6 | 60 | Only | in VII.1 |
| | | | | | 9028 | 6 | 61 | Only | in VII.1 |
| | | | | | 9028 | 6 | 62 | Only | in VII.1 |
| | | | | | 9028 | 6 | 63 | Only | in VII.1 |
| | | | | | 9028 | 6 | 64 | Only | in VII.1 |
| | | | | | 9028 | 6 | 65 | Only | in VII.1 |
| | | | | | 9028 | 6 | 66 | Only | in VII.1 |
| | | | | | 9028 | 6 | 67 | Only | in VII.1 |
| | | | | | 9028 | 6 | 68 | Only | in VII.1 |
| | | | | | 9028 | 6 | 69 | Only | in VII.1 |
| | | | | | 9028 | 6 | 70 | Only | in VII.1 |
| | | | | | 9028 | 6 | 71 | Only | in VII.1 |
| | | | | | 9028 | 6 | 72 | Only | in VII.1 |
| | | | | | 9028 | 6 | 73 | Only | in VII.1 |
| | | | | | 9028 | 6 | 74 | Only | in VII.1 |
| | | | | | 9028 | 6 | 75 | Only | in VII.1 |
| | | | | | 9028 | 6 | 76 | Only | in VII.1 |
| | | | | | 9028 | 6 | 77 | Only | in VII.1 |
| | | | | | 9028 | 6 | 78 | Only | in VII.1 |
| | | | | | 9028 | 6 | 79 | Only | in VII.1 |
| | | | | | 9028 | 6 | 91 | Only | in VII.1 |
| | | | | | 9028 | 6102 | | Only | in VII.1 |
| | | | | | | | | | |
| 90-Th-229 | | | | | | | | | |
| 1.000000-5 | 2.166210+0 | 2.530000-2 | 2.166210+0 | 6.500000+6 | 3.025210+0 | 9031 | 1452 | | |
| 1.000000-5 | 2.087200+0 | 2.530000-2 | 2.087200+0 | 5.000000+6 | 2.557200+0 | 9031 | 1452 | | |
| | | | | | | | | | |
| 1.000000-5 | 1.621000-2 | 2.530000-2 | 1.621000-2 | 6.500000+6 | 1.621000-2 | 9031 | 1455 | | |
| 1.000000-5 | 1.621000-2 | 2.530000-2 | 1.621000-2 | 5.000000+6 | 1.621000-2 | 9031 | 1455 | | |
| | | | | | | | | | |
| 1.000000-5 | 2.150000+0 | 2.000000+7 | 4.793000+0 | | | 9031 | 1456 | | |
| 1.000000-5 | 2.071000+0 | 2.000000+7 | 3.951000+0 | | | 9031 | 1456 | | |
| | | | | | | | | | |
| 9.022900+4 | 1.000000+0 | 0 | 0 | 2 | 09031 | 1458 | | Only | in VII.1 |
| | | | | | 09031 | 2151 | | | |

| | | | | | | | |
|------------------------|------------|---|---|---|---------|------|------------------|
| 9.022900+4 | 1.000000+0 | 0 | 0 | 1 | 09031 | 2151 | |
| <hr/> | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1269031 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 519031 | 3 | 1 |
| <hr/> | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1269031 | 3 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 409031 | 3 | 2 |
| <hr/> | | | | | | | |
| 0.000000+0-1.000000+1 | | 0 | 0 | 1 | 1169031 | 3 | 4 |
| 0.000000+0-1.000000+2 | | 0 | 0 | 1 | 349031 | 3 | 4 |
| <hr/> | | | | | | | |
| -5.256990+6-5.256990+6 | | 0 | 0 | 1 | 319031 | 3 | 16 |
| -5.248790+6-5.248790+6 | | 0 | 0 | 1 | 149031 | 3 | 16 |
| <hr/> | | | | | | | |
| -1.236230+7-1.236230+7 | | 0 | 0 | 1 | 169031 | 3 | 17 |
| -1.236880+7-1.236880+7 | | 0 | 0 | 1 | 89031 | 3 | 17 |
| <hr/> | | | | | | | |
| 1.838110+8 | 1.838110+8 | 0 | 0 | 2 | 1169031 | 3 | 18 |
| 1.999990+8 | 1.999990+8 | 0 | 0 | 2 | 329031 | 3 | 18 |
| <hr/> | | | | | | | |
| | | | | | 9031 | 3 | 19 Only in VII.1 |
| | | | | | 9031 | 3 | 20 Only in VII.1 |
| | | | | | 9031 | 3 | 21 Only in VII.1 |
| -1.782450+7-1.782450+7 | | 0 | 0 | 1 | 59031 | 3 | 37 |
| -1.782320+7-1.782320+7 | | 0 | 0 | 1 | 39031 | 3 | 37 |
| <hr/> | | | | | | | |
| | | | | | 9031 | 3 | 38 Only in VII.1 |
| 0.000000+0-1.000000+1 | | 0 | 0 | 1 | 1119031 | 3 | 51 |
| 0.000000+0-1.000000+2 | | 0 | 0 | 1 | 349031 | 3 | 51 |
| <hr/> | | | | | | | |
| 0.000000+0-2.100000+4 | | 0 | 0 | 1 | 949031 | 3 | 52 |
| 0.000000+0-2.000000+4 | | 0 | 0 | 1 | 309031 | 3 | 52 |
| <hr/> | | | | | | | |
| 0.000000+0-2.919000+4 | | 0 | 0 | 1 | 939031 | 3 | 53 |
| 0.000000+0-2.920000+4 | | 0 | 0 | 1 | 299031 | 3 | 53 |
| <hr/> | | | | | | | |
| 0.000000+0-4.244000+4 | | 0 | 0 | 1 | 919031 | 3 | 54 |
| 0.000000+0-4.249990+4 | | 0 | 0 | 1 | 279031 | 3 | 54 |
| <hr/> | | | | | | | |
| | | | | | 9031 | 3 | 55 Only in VII.1 |
| | | | | | 9031 | 3 | 56 Only in VII.1 |
| | | | | | 9031 | 3 | 57 Only in VII.1 |
| | | | | | 9031 | 3 | 58 Only in VII.1 |
| | | | | | 9031 | 3 | 59 Only in VII.1 |
| | | | | | 9031 | 3 | 60 Only in VII.1 |
| | | | | | 9031 | 3 | 61 Only in VII.1 |
| | | | | | 9031 | 3 | 62 Only in VII.1 |
| | | | | | 9031 | 3 | 63 Only in VII.1 |
| | | | | | 9031 | 3 | 64 Only in VII.1 |
| | | | | | 9031 | 3 | 65 Only in VII.1 |
| | | | | | 9031 | 3 | 66 Only in VII.1 |
| | | | | | 9031 | 3 | 67 Only in VII.1 |
| | | | | | 9031 | 3 | 68 Only in VII.1 |
| | | | | | 9031 | 3 | 69 Only in VII.1 |
| | | | | | 9031 | 3 | 70 Only in VII.1 |
| | | | | | 9031 | 3 | 71 Only in VII.1 |
| | | | | | 9031 | 3 | 72 Only in VII.1 |
| | | | | | 9031 | 3 | 73 Only in VII.1 |
| | | | | | 9031 | 3 | 74 Only in VII.1 |
| | | | | | 9031 | 3 | 75 Only in VII.1 |
| | | | | | 9031 | 3 | 76 Only in VII.1 |
| | | | | | 9031 | 3 | 77 Only in VII.1 |
| | | | | | 9031 | 3 | 78 Only in VII.1 |
| | | | | | 9031 | 3 | 79 Only in VII.1 |
| | | | | | 9031 | 3 | 80 Only in VII.1 |
| 0.000000+0-1.104840+5 | | 0 | 0 | 1 | 849031 | 3 | 91 |
| 0.000000+0-6.699990+4 | | 0 | 0 | 1 | 269031 | 3 | 91 |
| <hr/> | | | | | | | |
| 6.793860+6 | 6.793860+6 | 0 | 0 | 2 | 1169031 | 3102 | |
| 6.789690+6 | 6.789690+6 | 0 | 0 | 2 | 409031 | 3102 | |
| <hr/> | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1189031 | 4 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 389031 | 4 | 2 |
| <hr/> | | | | | | | |
| | | | | | 9031 | 4 | 16 Only in VII.0 |

| | | | | | | | |
|-------------|-------------|---|---|---|-------------|------|----------|
| 0.000000+0 | 2.270640+2 | 1 | 1 | 0 | 9031 4 17 | Only | in VII.0 |
| 0.000000+0 | 2.270640+2 | 0 | 1 | 0 | 09031 4 18 | | |
| ----- | | | | | | | |
| | | | | | 9031 4 37 | Only | in VII.0 |
| | | | | | 9031 4 51 | Only | in VII.0 |
| | | | | | 9031 4 52 | Only | in VII.0 |
| | | | | | 9031 4 53 | Only | in VII.0 |
| | | | | | 9031 4 54 | Only | in VII.0 |
| | | | | | 9031 4 91 | Only | in VII.0 |
| | | | | | 9031 5 16 | Only | in VII.0 |
| | | | | | 9031 5 17 | Only | in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29031 5 18 | | |
| -2.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29031 5 18 | | |
| ----- | | | | | | | |
| | | | | | 9031 5 37 | Only | in VII.0 |
| | | | | | 9031 5 91 | Only | in VII.0 |
| | | | | | 9031 5455 | Only | in VII.1 |
| | | | | | 9031 6 16 | Only | in VII.1 |
| | | | | | 9031 6 17 | Only | in VII.1 |
| | | | | | 9031 6 37 | Only | in VII.1 |
| | | | | | 9031 6 51 | Only | in VII.1 |
| | | | | | 9031 6 52 | Only | in VII.1 |
| | | | | | 9031 6 53 | Only | in VII.1 |
| | | | | | 9031 6 54 | Only | in VII.1 |
| | | | | | 9031 6 55 | Only | in VII.1 |
| | | | | | 9031 6 56 | Only | in VII.1 |
| | | | | | 9031 6 57 | Only | in VII.1 |
| | | | | | 9031 6 58 | Only | in VII.1 |
| | | | | | 9031 6 59 | Only | in VII.1 |
| | | | | | 9031 6 60 | Only | in VII.1 |
| | | | | | 9031 6 61 | Only | in VII.1 |
| | | | | | 9031 6 62 | Only | in VII.1 |
| | | | | | 9031 6 63 | Only | in VII.1 |
| | | | | | 9031 6 64 | Only | in VII.1 |
| | | | | | 9031 6 65 | Only | in VII.1 |
| | | | | | 9031 6 66 | Only | in VII.1 |
| | | | | | 9031 6 67 | Only | in VII.1 |
| | | | | | 9031 6 68 | Only | in VII.1 |
| | | | | | 9031 6 69 | Only | in VII.1 |
| | | | | | 9031 6 70 | Only | in VII.1 |
| | | | | | 9031 6 71 | Only | in VII.1 |
| | | | | | 9031 6 72 | Only | in VII.1 |
| | | | | | 9031 6 73 | Only | in VII.1 |
| | | | | | 9031 6 74 | Only | in VII.1 |
| | | | | | 9031 6 75 | Only | in VII.1 |
| | | | | | 9031 6 76 | Only | in VII.1 |
| | | | | | 9031 6 77 | Only | in VII.1 |
| | | | | | 9031 6 78 | Only | in VII.1 |
| | | | | | 9031 6 79 | Only | in VII.1 |
| | | | | | 9031 6 80 | Only | in VII.1 |
| | | | | | 9031 6 91 | Only | in VII.1 |
| | | | | | 9031 6102 | Only | in VII.1 |
| 90-Th-230 | | | | | | | |
| ***** | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 59034 1452 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 09034 1452 | | |
| ----- | | | | | | | |
| | | | | | 9034 1455 | Only | in VII.1 |
| | | | | | 9034 1456 | Only | in VII.1 |
| | | | | | 9034 1458 | Only | in VII.0 |
| 9.023000+4 | 1.000000+0 | 0 | 0 | 2 | 09034 2151 | | |
| 9.023000+4 | 1.000000+0 | 0 | 0 | 1 | 09034 2151 | | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1509034 3 1 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 509034 3 1 | | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1489034 3 2 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 449034 3 2 | | |
| ----- | | | | | | | |
| 0.000000+0 | -5.320000+4 | 0 | 0 | 1 | 739034 3 4 | | |
| 0.000000+0 | -5.276900+4 | 0 | 0 | 1 | 379034 3 4 | | |
| ----- | | | | | | | |
| -6.793860+6 | -6.793860+6 | 0 | 0 | 1 | 289034 3 16 | | |
| -6.791100+6 | -6.791100+6 | 0 | 0 | 1 | 89034 3 16 | | |

| | | | | | |
|-------------|-------------|---|---|---|-------------------------|
| ----- | | | | | |
| -1.205080+7 | -1.205080+7 | 0 | 0 | 1 | 179034 3 17 |
| -1.204000+7 | -1.204000+7 | 0 | 0 | 1 | 59034 3 17 |
| ----- | | | | | |
| 1.837000+8 | 1.837000+8 | 0 | 0 | 1 | 1269034 3 18 |
| 1.905965+8 | 1.905965+8 | 0 | 0 | 1 | 489034 3 18 |
| ----- | | | | | |
| | | | | | 9034 3 19 Only in VII.1 |
| | | | | | 9034 3 20 Only in VII.1 |
| | | | | | 9034 3 21 Only in VII.1 |
| | | | | | 9034 3 37 Only in VII.1 |
| | | | | | 9034 3 38 Only in VII.1 |
| 0.000000+0 | -5.320000+4 | 0 | 0 | 1 | 729034 3 51 |
| 0.000000+0 | -5.276900+4 | 0 | 0 | 1 | 319034 3 51 |
| ----- | | | | | |
| 0.000000+0 | -1.741000+5 | 0 | 0 | 1 | 669034 3 52 |
| 0.000000+0 | -1.732400+5 | 0 | 0 | 1 | 299034 3 52 |
| ----- | | | | | |
| 0.000000+0 | -3.566000+5 | 0 | 0 | 1 | 629034 3 53 |
| 0.000000+0 | -3.554400+5 | 0 | 0 | 1 | 269034 3 53 |
| ----- | | | | | |
| 0.000000+0 | -5.081600+5 | 0 | 0 | 1 | 599034 3 54 |
| 0.000000+0 | -5.047900+5 | 0 | 0 | 1 | 249034 3 54 |
| ----- | | | | | |
| 0.000000+0 | -5.717700+5 | 0 | 0 | 1 | 589034 3 55 |
| 0.000000+0 | -5.695000+5 | 0 | 0 | 1 | 239034 3 55 |
| ----- | | | | | |
| 0.000000+0 | -5.941000+5 | 0 | 0 | 1 | 579034 3 56 |
| 0.000000+0 | -6.302400+5 | 0 | 0 | 1 | 229034 3 56 |
| ----- | | | | | |
| 0.000000+0 | -6.349000+5 | 0 | 0 | 1 | 559034 3 57 |
| 0.000000+0 | -6.740400+5 | 0 | 0 | 1 | 219034 3 57 |
| ----- | | | | | |
| 0.000000+0 | -6.776000+5 | 0 | 0 | 1 | 549034 3 58 |
| 0.000000+0 | -6.790200+5 | 0 | 0 | 1 | 209034 3 58 |
| ----- | | | | | |
| 0.000000+0 | -6.867000+5 | 0 | 0 | 1 | 539034 3 59 |
| 0.000000+0 | -7.676300+5 | 0 | 0 | 1 | 189034 3 59 |
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| | | | | | 9034 3 60 Only in VII.0 |
| | | | | | 9034 3 61 Only in VII.0 |
| | | | | | 9034 3 62 Only in VII.0 |
| | | | | | 9034 3 63 Only in VII.0 |
| | | | | | 9034 3 64 Only in VII.0 |
| | | | | | 9034 3 65 Only in VII.0 |
| | | | | | 9034 3 66 Only in VII.0 |
| | | | | | 9034 3 67 Only in VII.0 |
| 0.000000+0 | -1.104820+5 | 0 | 0 | 1 | 709034 3 91 |
| 0.000000+0 | -9.956300+5 | 0 | 0 | 1 | 159034 3 91 |
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| 5.118020+6 | 5.118020+6 | 0 | 0 | 2 | 869034 3102 |
| 5.120500+6 | 5.120500+6 | 0 | 0 | 1 | 449034 3102 |
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| 0.000000+0 | 2.280570+2 | 0 | 2 | 0 | 09034 4 2 |
| 0.000000+0 | 2.280600+2 | 0 | 2 | 0 | 09034 4 2 |
| ----- | | | | | |
| | | | | | 9034 4 16 Only in VII.0 |
| | | | | | 9034 4 17 Only in VII.0 |
| 0.000000+0 | 2.280570+2 | 1 | 1 | 0 | 09034 4 18 |
| 0.000000+0 | 2.280600+2 | 1 | 1 | 0 | 09034 4 18 |
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| | | | | | 9034 4 51 Only in VII.0 |
| | | | | | 9034 4 52 Only in VII.0 |
| | | | | | 9034 4 53 Only in VII.0 |
| | | | | | 9034 4 54 Only in VII.0 |
| | | | | | 9034 4 55 Only in VII.0 |
| | | | | | 9034 4 56 Only in VII.0 |
| | | | | | 9034 4 57 Only in VII.0 |
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| | | | | | 9034 4 61 Only in VII.0 |
| | | | | | 9034 4 62 Only in VII.0 |
| | | | | | 9034 4 63 Only in VII.0 |
| | | | | | 9034 4 64 Only in VII.0 |

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|-------------|------------|---|---|---|-------------------------|
| | | | | | 9034 4 65 Only in VII.0 |
| | | | | | 9034 4 66 Only in VII.0 |
| | | | | | 9034 4 67 Only in VII.0 |
| | | | | | 9034 4 91 Only in VII.0 |
| | | | | | 9034 5 16 Only in VII.0 |
| | | | | | 9034 5 17 Only in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29034 5 18 |
| -3.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29034 5 18 |

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| 9034 5 91 Only in VII.0 |
| 9034 6 16 Only in VII.1 |
| 9034 6 17 Only in VII.1 |
| 9034 6 37 Only in VII.1 |
| 9034 6 51 Only in VII.1 |
| 9034 6 52 Only in VII.1 |
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| 9034 6 58 Only in VII.1 |
| 9034 6 59 Only in VII.1 |
| 9034 6 91 Only in VII.1 |
| 9034 6102 Only in VII.1 |

90-Th-231 Evaluation Only in VII.1

90-Th-232

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|------------|------------|------------|------------|------------|------------|-----------|
| 6.183369+2 | 5.000000-1 | 4.948537-3 | 2.743675-2 | 0.000000+0 | 0.000000+0 | 9040 2151 |
| 6.183368+2 | 5.000000-1 | 4.948537-3 | 2.743675-2 | 0.000000+0 | 0.000000+0 | 9040 2151 |

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|------------|------------|---|---|---|-------------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 2129040 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1649040 3 1 |

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|------------|------------|------------|------------|------------|--------------------|
| 1.000000-5 | 0.000000+0 | 4.000000+3 | 0.000000+0 | 4.000000+3 | 1.702340+19040 3 2 |
| 1.000000-5 | 0.000000+0 | 4.000000+3 | 0.000000+0 | 4.000000+3 | 1.672600+19040 3 2 |

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|------------|------------|------------|------------|------------|--------------------|
| 4.958461+4 | 0.000000+0 | 5.000000+4 | 7.318200-3 | 5.100000+4 | 2.336200-29040 3 4 |
| 4.958460+4 | 0.000000+0 | 5.000000+4 | 7.386080-3 | 5.100000+4 | 2.363990-29040 3 4 |

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|-------------|-------------|---|---|---|------------|
| -3.922000+6 | -3.922000+6 | 0 | 0 | 1 | 289040 3 5 |
| 1.407000+6 | 1.407000+6 | 0 | 0 | 1 | 379040 3 5 |

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|------------|------------|------------|------------|------------|---------------------|
| 6.464980+6 | 0.000000+0 | 6.800000+6 | 7.644680-2 | 7.000000+6 | 2.498850-19040 3 16 |
| 6.464980+6 | 0.000000+0 | 6.800000+6 | 7.657270-2 | 7.000000+6 | 2.504650-19040 3 16 |

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|------------|------------|------------|------------|------------|---------------------|
| 1.160520+7 | 0.000000+0 | 1.180000+7 | 5.045210-5 | 1.200000+7 | 8.974550-49040 3 17 |
| 1.160520+7 | 0.000000+0 | 1.180000+7 | 5.063780-5 | 1.200000+7 | 9.011270-49040 3 17 |

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|------------|------------|------------|------------|------------|---------------------|
| 1.000000-5 | 0.000000+0 | 4.000000+3 | 0.000000+0 | 4.000000+3 | 3.799060-69040 3 18 |
| 1.000000-5 | 0.000000+0 | 4.000000+3 | 0.000000+0 | 4.000000+3 | 3.772000-69040 3 18 |

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|------------|------------|---|---|---|-------------|
| 4.083000+6 | 4.083000+6 | 0 | 0 | 1 | 559040 3 22 |
| 4.083000+6 | 4.083000+6 | 0 | 0 | 1 | 579040 3 22 |

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|------------|------------|------------|------------|------------|---------------------|
| 2.233670+6 | 0.000000+0 | 1.180000+7 | 0.000000+0 | 1.200000+7 | 3.57113-149040 3 24 |
| 2.233668+6 | 0.000000+0 | 1.180000+7 | 0.000000+0 | 1.200000+7 | 3.56136-149040 3 24 |

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|------------|------------|------------|------------|------------|---------------------|
| 7.788710+6 | 0.000000+0 | 1.050000+7 | 0.000000+0 | 1.100000+7 | 9.11725-159040 3 28 |
| 7.788710+6 | 0.000000+0 | 1.050000+7 | 0.000000+0 | 1.100000+7 | 9.09976-159040 3 28 |

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|------------|------------|------------|------------|------------|---------------------|
| 1.353160+7 | 0.000000+0 | 1.650000+7 | 0.000000+0 | 1.700000+7 | 7.13681-159040 3 41 |
| 1.353157+7 | 0.000000+0 | 1.650000+7 | 0.000000+0 | 1.700000+7 | 7.08939-159040 3 41 |

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|------------|------------|------------|------------|------------|---------------------|
| 4.958460+4 | 0.000000+0 | 5.000000+4 | 7.318190-3 | 5.100000+4 | 2.336200-29040 3 51 |
| 4.958460+4 | 0.000000+0 | 5.000000+4 | 7.386080-3 | 5.100000+4 | 2.363990-29040 3 51 |

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|------------|------------|------------|------------|------------|---------------------|
| 1.628250+5 | 0.000000+0 | 1.750000+5 | 8.498980-4 | 1.900000+5 | 1.791470-39040 3 52 |
| 1.628247+5 | 0.000000+0 | 1.750000+5 | 8.603450-4 | 1.900000+5 | 1.833970-39040 3 52 |

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|------------|------------|------------|------------|------------|---------------------|
| 3.346480+5 | 0.000000+0 | 3.500000+5 | 2.733700-6 | 4.000000+5 | 2.029220-59040 3 53 |
| 3.346480+5 | 0.000000+0 | 3.500000+5 | 2.782700-6 | 4.000000+5 | 2.067350-59040 3 53 |

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|------------|------------|------------|------------|------------|---------------------|
| 5.593210+5 | 0.000000+0 | 6.000000+5 | 9.044940-9 | 6.500000+5 | 8.480210-89040 3 54 |
| 5.593208+5 | 0.000000+0 | 6.000000+5 | 9.260080-9 | 6.500000+5 | 8.695160-89040 3 54 |

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|------------|------------|------------|------------|------------|----------------|---|----|
| 7.173550+5 | 0.000000+0 | 7.500000+5 | 6.583260-2 | 8.000000+5 | 1.409790-19040 | 3 | 55 |
| 7.173548+5 | 0.000000+0 | 7.500000+5 | 6.778220-2 | 8.000000+5 | 1.454040-19040 | 3 | 55 |
| 7.335250+5 | 0.000000+0 | 7.500000+5 | 1.543450-2 | 8.000000+5 | 5.042140-29040 | 3 | 56 |
| 7.335248+5 | 0.000000+0 | 7.500000+5 | 1.589160-2 | 8.000000+5 | 5.200400-29040 | 3 | 56 |
| 7.774650+5 | 0.000000+0 | 8.000000+5 | 3.588850-2 | 8.500000+5 | 9.115350-29040 | 3 | 57 |
| 7.774650+5 | 0.000000+0 | 8.000000+5 | 3.701490-2 | 8.500000+5 | 9.391070-29040 | 3 | 57 |
| 7.777660+5 | 0.000000+0 | 8.000000+5 | 1.855330-2 | 8.500000+5 | 5.739300-29040 | 3 | 58 |
| 7.777660+5 | 0.000000+0 | 8.000000+5 | 1.913560-2 | 8.500000+5 | 5.912900-29040 | 3 | 58 |
| 7.887140+5 | 0.000000+0 | 8.000000+5 | 1.831790-2 | 8.500000+5 | 7.752570-29040 | 3 | 59 |
| 7.887137+5 | 0.000000+0 | 8.000000+5 | 1.889290-2 | 8.500000+5 | 7.987070-29040 | 3 | 59 |
| 8.305950+5 | 0.000000+0 | 8.500000+5 | 1.81384-12 | 9.000000+5 | 2.53617-119040 | 3 | 60 |
| 8.305949+5 | 0.000000+0 | 8.500000+5 | 1.86871-12 | 9.000000+5 | 2.61000-119040 | 3 | 60 |
| 8.332060+5 | 0.000000+0 | 8.500000+5 | 1.332910-2 | 9.000000+5 | 4.327230-29040 | 3 | 61 |
| 8.332060+5 | 0.000000+0 | 8.500000+5 | 1.343450-2 | 9.000000+5 | 4.392670-29040 | 3 | 61 |
| 8.767950+5 | 0.000000+0 | 9.000000+5 | 3.743860-3 | 9.500000+5 | 1.313100-29040 | 3 | 62 |
| 8.767949+5 | 0.000000+0 | 9.000000+5 | 3.800480-3 | 9.500000+5 | 1.342570-29040 | 3 | 62 |
| 8.874410+5 | 0.000000+0 | 9.000000+5 | 3.304620-4 | 9.500000+5 | 1.846150-39040 | 3 | 63 |
| 8.874410+5 | 0.000000+0 | 9.000000+5 | 3.354600-4 | 9.500000+5 | 1.887580-39040 | 3 | 63 |
| 8.939690+5 | 0.000000+0 | 9.000000+5 | 9.781640-4 | 9.500000+5 | 9.459290-39040 | 3 | 64 |
| 8.939690+5 | 0.000000+0 | 9.000000+5 | 9.929570-4 | 9.500000+5 | 9.671550-39040 | 3 | 64 |
| 9.645750+5 | 0.000000+0 | 1.000000+6 | 1.943140-3 | 1.100000+6 | 8.906040-39040 | 3 | 65 |
| 9.645748+5 | 0.000000+0 | 1.000000+6 | 2.001170-3 | 1.100000+6 | 9.153900-39040 | 3 | 65 |
| 1.027550+6 | 0.000000+0 | 1.100000+6 | 1.413200-4 | 1.140000+6 | 2.819320-49040 | 3 | 66 |
| 1.027547+6 | 0.000000+0 | 1.100000+6 | 1.452530-4 | 1.140000+6 | 2.895500-49040 | 3 | 66 |
| 1.047430+6 | 0.000000+0 | 1.100000+6 | 6.402250-6 | 1.140000+6 | 1.577030-59040 | 3 | 67 |
| 1.047430+6 | 0.000000+0 | 1.100000+6 | 6.580430-6 | 1.140000+6 | 1.619640-59040 | 3 | 67 |
| 1.054460+6 | 0.000000+0 | 1.100000+6 | 7.354120-5 | 1.140000+6 | 1.853980-49040 | 3 | 68 |
| 1.054460+6 | 0.000000+0 | 1.100000+6 | 7.558790-5 | 1.140000+6 | 1.904080-49040 | 3 | 68 |
| 1.058180+6 | 0.000000+0 | 1.100000+6 | 2.561420-2 | 1.140000+6 | 4.485470-29040 | 3 | 69 |
| 1.058180+6 | 0.000000+0 | 1.100000+6 | 2.632710-2 | 1.140000+6 | 4.606670-29040 | 3 | 69 |
| 1.077560+6 | 0.000000+0 | 1.100000+6 | 1.378810-2 | 1.140000+6 | 3.384090-29040 | 3 | 70 |
| 1.077560+6 | 0.000000+0 | 1.100000+6 | 1.417180-2 | 1.140000+6 | 3.475530-29040 | 3 | 70 |
| 1.082180+6 | 0.000000+0 | 1.100000+6 | 1.178520-2 | 1.140000+6 | 3.411610-29040 | 3 | 71 |
| 1.082180+6 | 0.000000+0 | 1.100000+6 | 1.179450-2 | 1.140000+6 | 3.435660-29040 | 3 | 71 |
| 1.083390+6 | 0.000000+0 | 1.100000+6 | 5.212090-3 | 1.140000+6 | 1.537540-29040 | 3 | 72 |
| 1.083389+6 | 0.000000+0 | 1.100000+6 | 5.216220-3 | 1.140000+6 | 1.548380-29040 | 3 | 72 |
| 1.099160+6 | 0.000000+0 | 1.140000+6 | 1.404360-2 | 1.200000+6 | 3.359360-29040 | 3 | 73 |
| 1.099157+6 | 0.000000+0 | 1.140000+6 | 1.414260-2 | 1.200000+6 | 3.415070-29040 | 3 | 73 |
| 1.110510+6 | 0.000000+0 | 1.140000+6 | 9.924710-3 | 1.200000+6 | 2.912470-29040 | 3 | 74 |
| 1.110507+6 | 0.000000+0 | 1.140000+6 | 9.994670-3 | 1.200000+6 | 2.960770-29040 | 3 | 74 |
| 1.126680+6 | 0.000000+0 | 1.140000+6 | 7.354170-3 | 1.200000+6 | 3.333500-29040 | 3 | 75 |
| 1.126676+6 | 0.000000+0 | 1.140000+6 | 7.406010-3 | 1.200000+6 | 3.388780-29040 | 3 | 75 |
| 1.142040+6 | 0.000000+0 | 1.200000+6 | 2.33345-15 | 1.240000+6 | 4.53263-149040 | 3 | 76 |
| 1.142040+6 | 0.000000+0 | 1.200000+6 | 2.37215-15 | 1.240000+6 | 4.63707-149040 | 3 | 76 |
| 1.148270+6 | 0.000000+0 | 1.200000+6 | 7.563760-3 | 1.240000+6 | 1.272770-29040 | 3 | 77 |
| 1.148270+6 | 0.000000+0 | 1.200000+6 | 7.689200-3 | 1.240000+6 | 1.302100-29040 | 3 | 77 |
| 1.150980+6 | 0.000000+0 | 1.200000+6 | 3.201620-5 | 1.240000+6 | 7.383080-59040 | 3 | 78 |
| 1.150980+6 | 0.000000+0 | 1.200000+6 | 3.254710-5 | 1.240000+6 | 7.553190-59040 | 3 | 78 |
| 1.153290+6 | 0.000000+0 | 1.200000+6 | 5.075240-3 | 1.240000+6 | 1.035690-29040 | 3 | 79 |
| 1.153290+6 | 0.000000+0 | 1.200000+6 | 5.159410-3 | 1.240000+6 | 1.059550-29040 | 3 | 79 |

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|-------------|------------|------------|------------|------------|----------------|------|------|
| 1.187640+6 | 0.000000+0 | 1.200000+6 | 3.529490-3 | 1.240000+6 | 1.392280-29040 | 3 | 80 |
| 1.187640+6 | 0.000000+0 | 1.200000+6 | 3.588020-3 | 1.240000+6 | 1.424360-29040 | 3 | 80 |
| 1.214160+6 | 0.000000+0 | 1.240000+6 | 4.402680-4 | 1.300000+6 | 1.807960-39040 | 3 | 81 |
| 1.214155+6 | 0.000000+0 | 1.240000+6 | 4.504120-4 | 1.300000+6 | 1.853300-39040 | 3 | 81 |
| 1.223400+6 | 0.000000+0 | 1.240000+6 | 2.089070-3 | 1.300000+6 | 8.719840-39040 | 3 | 82 |
| 1.223395+6 | 0.000000+0 | 1.240000+6 | 2.137200-3 | 1.300000+6 | 8.938490-39040 | 3 | 82 |
| 1.227410+6 | 0.000000+0 | 1.240000+6 | 2.333640-8 | 1.300000+6 | 2.587150-79040 | 3 | 83 |
| 1.227410+6 | 0.000000+0 | 1.240000+6 | 2.387410-8 | 1.300000+6 | 2.652020-79040 | 3 | 83 |
| 1.255030+6 | 0.000000+0 | 1.300000+6 | 9.404840-9 | 1.350000+6 | 3.456270-89040 | 3 | 84 |
| 1.255030+6 | 0.000000+0 | 1.300000+6 | 9.640670-9 | 1.350000+6 | 3.538530-89040 | 3 | 84 |
| 1.264170+6 | 0.000000+0 | 1.300000+6 | 6.976220-8 | 1.350000+6 | 3.951400-79040 | 3 | 85 |
| 1.264170+6 | 0.000000+0 | 1.300000+6 | 7.151150-8 | 1.350000+6 | 4.045450-79040 | 3 | 85 |
| 1.298820+6 | 0.000000+0 | 1.350000+6 | 1.591810-2 | 1.400000+6 | 3.065440-29040 | 3 | 86 |
| 1.298820+6 | 0.000000+0 | 1.350000+6 | 1.629700-2 | 1.400000+6 | 3.134500-29040 | 3 | 86 |
| 1.335180+6 | 0.000000+0 | 1.350000+6 | 2.174600-5 | 1.400000+6 | 1.257640-49040 | 3 | 87 |
| 1.335179+6 | 0.000000+0 | 1.350000+6 | 2.226360-5 | 1.400000+6 | 1.285970-49040 | 3 | 87 |
| 1.375960+6 | 0.000000+0 | 1.400000+6 | 3.589470-5 | 1.460000+6 | 1.800960-49040 | 3 | 88 |
| 1.375955+6 | 0.000000+0 | 1.400000+6 | 3.670340-5 | 1.460000+6 | 1.838790-49040 | 3 | 88 |
| 1.393230+6 | 0.000000+0 | 1.400000+6 | 1.004570-5 | 1.460000+6 | 1.306480-49040 | 3 | 89 |
| 1.393230+6 | 0.000000+0 | 1.400000+6 | 1.027200-5 | 1.460000+6 | 1.333920-49040 | 3 | 89 |
| 4.455000+5 | 0.000000+0 | 4.500000+5 | 6.248020-5 | 5.000000+5 | 1.126060-49040 | 3 | 91 |
| 4.455000+5 | 0.000000+0 | 4.500000+5 | 6.266010-5 | 5.000000+5 | 1.132450-49040 | 3 | 91 |
| 1.000000-5 | 0.000000+0 | 4.000000+3 | 0.000000+0 | 4.000000+3 | 1.321810+09040 | 3102 | |
| 1.000000-5 | 0.000000+0 | 4.000000+3 | 0.000000+0 | 4.000000+3 | 1.183070+09040 | 3102 | |
| | | | | | | 9040 | 3112 |
| 2.930680+6 | 0.000000+0 | 5.750000+6 | 0.000000+0 | 6.100000+6 | 4.71082-159040 | 3600 | |
| 2.930680+6 | 0.000000+0 | 5.750000+6 | 0.000000+0 | 6.100000+6 | 4.71161-159040 | 3600 | |
| 2.930680+6 | 0.000000+0 | 5.750000+6 | 0.000000+0 | 6.100000+6 | 1.30887-149040 | 3649 | |
| 2.930680+6 | 0.000000+0 | 5.750000+6 | 0.000000+0 | 6.100000+6 | 1.30909-149040 | 3649 | |
| 8.655000+6 | 8.655000+6 | 0 | 0 | 1 | 889040 | 3800 | |
| 8.655000+6 | 8.655000+6 | 0 | 0 | 1 | 909040 | 3800 | |
| 8.655000+6 | 8.655000+6 | 0 | 0 | 1 | 889040 | 3849 | |
| 8.655000+6 | 8.655000+6 | 0 | 0 | 1 | 909040 | 3849 | |
| 0.000000+0 | 2.300450+2 | 0 | 2 | 0 | 639040 | 4 | 2 |
| 0.000000+0 | 2.300450+2 | 0 | 2 | 0 | 09040 | 4 | 2 |
| 4.568890-2 | 2.344780-2 | 1.309000-2 | 3.095110-3 | | 9040 | 4 | 51 |
| 4.568900-2 | 2.344780-2 | 1.309000-2 | 3.095110-3 | | 9040 | 4 | 51 |
| 8.267510-2 | 5.956630-3 | 4.941050-3 | 0.000000+0 | | 9040 | 4 | 52 |
| 8.267510-2 | 5.956640-3 | 4.941050-3 | 0.000000+0 | | 9040 | 4 | 52 |
| 1.476250-1 | 4.981510-2 | 8.510160-5 | 5.778520-3 | | 9040 | 4 | 53 |
| 1.476250-1 | 4.981510-2 | 8.510150-5 | 5.778520-3 | | 9040 | 4 | 53 |
| -8.171520-3 | 5.121470-3 | | | | 9040 | 4 | 54 |
| -8.171520-3 | 5.121460-3 | | | | 9040 | 4 | 54 |
| -5.059820-4 | 0.000000+0 | | | | 9040 | 4 | 55 |
| -5.059810-4 | 0.000000+0 | | | | 9040 | 4 | 55 |
| 3.238360-3 | 1.158240-1 | 1.685290-2 | 2.429430-2 | 7.915440-3 | 1.449480-29040 | 4 | 56 |
| 3.238360-3 | 1.158240-1 | 1.685290-2 | 2.429430-2 | 7.915430-3 | 1.449480-29040 | 4 | 56 |
| 7.595890-4 | 5.990100-3 | | | | 9040 | 4 | 57 |
| 7.595880-4 | 5.990100-3 | | | | 9040 | 4 | 57 |
| 1.350790-2 | 3.003530-2 | 5.954940-3 | 1.323090-3 | 1.076770-2 | 7.610340-39040 | 4 | 58 |

Only in VII.1

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|---|-----------------------|-----------------------|------------|------|-------|------|
| ----- | | | | | | |
| 1.350790-2-3.003530-2 | 5.954940-3-1.323100-3 | 1.076770-2-7.610340-3 | 9040 | 4 | 58 | |
| ----- | | | | | | |
| 1.184360-3-9.779560-3 | | | 9040 | 4 | 59 | |
| 1.184350-3-9.779560-3 | | | 9040 | 4 | 59 | |
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| 7.533390-2 | 5.531870-2 | 9.012700-3 | 6.807230-3 | | 9040 | 4 60 |
| 7.533390-2 | 5.531870-2 | 9.012700-3 | 6.807240-3 | | 9040 | 4 60 |
| ----- | | | | | | |
| 0.000000+0 | 1.460000+6 | 0 | 0 | 2 | 09040 | 4 61 |
| 0.000000+0 | 1.460000+6 | 0 | 0 | 4 | 09040 | 4 61 |
| ----- | | | | | | |
| 4.825920-3-5.206790-3 | | | | | 9040 | 4 62 |
| 4.825910-3-5.206790-3 | | | | | 9040 | 4 62 |
| ----- | | | | | | |
| 1.252290-1-5.696520-2-5.036810-2-2.823130-2 | 3.883600-2 | 1.844040-2 | 9040 | 4 | 63 | |
| 1.252290-1-5.696510-2-5.036810-2-2.823130-2 | 3.883600-2 | 1.844040-2 | 9040 | 4 | 63 | |
| ----- | | | | | | |
| 7.042480-3-9.374870-3 | | | | | 9040 | 4 64 |
| 7.042480-3-9.374880-3 | | | | | 9040 | 4 64 |
| ----- | | | | | | |
| 6.769090-5 | 0.000000+0 | | | | 9040 | 4 65 |
| 6.769100-5 | 0.000000+0 | | | | 9040 | 4 65 |
| ----- | | | | | | |
| 4.861360-3 | 2.710600-2 | | | | 9040 | 4 66 |
| 4.861370-3 | 2.710600-2 | | | | 9040 | 4 66 |
| ----- | | | | | | |
| 6.774260-3-2.907910-3 | | | | | 9040 | 4 67 |
| 6.774250-3-2.907910-3 | | | | | 9040 | 4 67 |
| ----- | | | | | | |
| -1.677550-2-1.668900-2-6.685080-3 | 4.344190-3 | 8.708010-3 | 5.338730-3 | 9040 | 4 | 68 |
| -1.677550-2-1.668900-2-6.685080-3 | 4.344190-3 | 8.708020-3 | 5.338730-3 | 9040 | 4 | 68 |
| ----- | | | | | | |
| 2.024350-3-5.427170-3 | 1.340080-4-2.934870-3 | | | | 9040 | 4 69 |
| 2.024350-3-5.427160-3 | 1.340080-4-2.934870-3 | | | | 9040 | 4 69 |
| ----- | | | | | | |
| -2.902990-4-4.326680-3 | | | | | 9040 | 4 70 |
| -2.902990-4-4.326670-3 | | | | | 9040 | 4 70 |
| ----- | | | | | | |
| -1.559130-3 | 0.000000+0 | | | | 9040 | 4 71 |
| -1.561090-3 | 9.737440-4 | | | | 9040 | 4 71 |
| ----- | | | | | | |
| -4.566690-3 | 5.850230-2 | 4.516240-3 | 7.688270-3 | | 9040 | 4 72 |
| -4.566690-3 | 5.850230-2 | 4.516240-3 | 7.688260-3 | | 9040 | 4 72 |
| ----- | | | | | | |
| 4.119500-5 | 0.000000+0 | | | | 9040 | 4 73 |
| 4.119510-5 | 0.000000+0 | | | | 9040 | 4 73 |
| ----- | | | | | | |
| 6.422540-5 | 0.000000+0 | | | | 9040 | 4 74 |
| 6.422550-5 | 0.000000+0 | | | | 9040 | 4 74 |
| ----- | | | | | | |
| 3.033360-3-7.117950-3-4.955550-4-3.675450-3 | | | | | 9040 | 4 75 |
| 3.033370-3-7.117950-3-4.955550-4-3.675450-3 | | | | | 9040 | 4 75 |
| ----- | | | | | | |
| 1.185630-3 | 1.077470-2-2.390630-3 | 0.000000+0 | | | 9040 | 4 76 |
| 1.185630-3 | 1.077470-2-2.390620-3 | 0.000000+0 | | | 9040 | 4 76 |
| ----- | | | | | | |
| -8.721690-4 | 0.000000+0 | | | | 9040 | 4 77 |
| -8.721700-4 | 0.000000+0 | | | | 9040 | 4 77 |
| ----- | | | | | | |
| 1.211150-5 | 0.000000+0 | | | | 9040 | 4 78 |
| 1.211160-5 | 0.000000+0 | | | | 9040 | 4 78 |
| ----- | | | | | | |
| 7.464020-3-1.062350-2 | | | | | 9040 | 4 79 |
| 7.464010-3-1.062350-2 | | | | | 9040 | 4 79 |
| ----- | | | | | | |
| 6.177120-5 | 0.000000+0 | | | | 9040 | 4 80 |
| 6.177110-5 | 0.000000+0 | | | | 9040 | 4 80 |
| ----- | | | | | | |
| 4.590910-3 | 0.000000+0 | | | | 9040 | 4 81 |
| 4.590900-3 | 0.000000+0 | | | | 9040 | 4 81 |
| ----- | | | | | | |
| -1.538360-3 | 0.000000+0 | | | | 9040 | 4 82 |
| -1.535790-3-1.293490-3 | | | | | 9040 | 4 82 |
| ----- | | | | | | |
| -9.820031-4 | 4.221780-3 | | | | 9040 | 4 83 |

| | | | | | | | | |
|-------------|-------------|------------|-------------|-------------|------------|---------|------|---------------|
| -9.820030-4 | 4.221780-3 | | | | | 9040 | 4 | 83 |
| -2.687500-3 | 2.572610-3 | | | | | 9040 | 4 | 84 |
| -2.687490-3 | 2.572610-3 | | | | | 9040 | 4 | 84 |
| 8.060270-4 | 4.116630-2 | | | | | 9040 | 4 | 85 |
| 8.060260-4 | 4.116630-2 | | | | | 9040 | 4 | 85 |
| 1.603630-3 | -3.329860-3 | 7.245740-4 | -2.406090-3 | | | 9040 | 4 | 86 |
| 1.603630-3 | -3.329860-3 | 7.245750-4 | -2.406090-3 | | | 9040 | 4 | 86 |
| 2.922510-2 | 6.769290-2 | 9.805710-4 | 0.000000+0 | | | 9040 | 4 | 87 |
| 2.922510-2 | 6.769300-2 | 9.805710-4 | 0.000000+0 | | | 9040 | 4 | 87 |
| 2.335830-2 | 7.113720-2 | | | | | 9040 | 4 | 88 |
| 2.335830-2 | 7.113710-2 | | | | | 9040 | 4 | 88 |
| 1.040360-4 | 2.754770-2 | | | | | 9040 | 4 | 89 |
| 1.040350-4 | 2.754770-2 | | | | | 9040 | 4 | 89 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 579040 | 4800 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 589040 | 4800 | |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | | 289040 | 6 | 5 |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | | 369040 | 6 | 5 |
| 0.000000+0 | 4.360180-7 | 2.09301-10 | 0.000000+0 | 7.748000+4 | 1.461780-6 | 9040 | 6 | 16 |
| 0.000000+0 | 4.360170-7 | 2.09301-10 | 0.000000+0 | 7.748000+4 | 1.461780-6 | 9040 | 6 | 16 |
| 0.000000+0 | 3.567370-6 | 7.17859-10 | 1.090800+5 | 5.343040-6 | 2.191220-9 | 9040 | 6 | 17 |
| 0.000000+0 | 3.567370-6 | 7.17859-10 | 1.090800+5 | 5.343030-6 | 2.191220-9 | 9040 | 6 | 17 |
| 1.000000-5 | 0.000000+0 | 1.000000+3 | 0.000000+0 | 4.000000+6 | 2.020750-7 | 9040 | 6 | 18 |
| 1.000000-5 | -5.550760-6 | 1.000000+3 | -5.550760-6 | 4.000000+6 | 2.020750-7 | 9040 | 6 | 18 |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | | 29040 | 6 | 22 |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | | 39040 | 6 | 22 |
| 0.000000+0 | 2.783420-7 | 8.83523-11 | 1.157300+5 | 1.658490-6 | 1.106590-9 | 9040 | 6 | 24 |
| 0.000000+0 | 2.783420-7 | 8.83523-11 | 1.157300+5 | 1.658490-6 | 1.106580-9 | 9040 | 6 | 24 |
| 0.000000+0 | 1.547120-8 | 2.069240-9 | 1.517680-9 | -2.89150-10 | 4.36544-11 | 9040 | 6 | 28 |
| 0.000000+0 | 1.547120-8 | 2.069240-9 | 1.517680-9 | -2.89150-10 | 4.36545-11 | 9040 | 6 | 28 |
| 7.54496-13 | 0.000000+0 | 2.458550+6 | 6.88917-11 | 5.07155-13 | 0.000000+0 | 9040 | 6 | 41 |
| 7.54496-13 | 0.000000+0 | 2.458550+6 | 6.88916-11 | 5.07155-13 | 0.000000+0 | 9040 | 6 | 41 |
| 1.628400+5 | 2.516450-6 | 7.45269-14 | 1.954100+5 | 1.644040-6 | 0.000000+0 | 9040 | 6 | 91 |
| 1.628400+5 | 2.516450-6 | 7.45268-14 | 1.954100+5 | 1.644040-6 | 0.000000+0 | 9040 | 6 | 91 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | | 1689040 | 6102 | |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | | 1699040 | 6102 | |
| 2.58106-10 | 2.25961-11 | 2.944230+6 | 9.292310-9 | 5.30952-10 | 4.68650-11 | 9040 | 6112 | Only in VII.1 |
| 2.58106-10 | 2.25961-11 | 2.944230+6 | 9.292310-9 | 5.30952-10 | 4.68649-11 | 9040 | 6649 | |
| 2.004000+3 | 3.967130+0 | 0 | 1 | 1 | | 29040 | 6849 | |
| 2.004000+3 | 3.967130+0 | 0 | 1 | 1 | | 39040 | 6849 | |
| 90-Th-233 | | | | | | | | |
| ***** | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 59043 | 1452 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 109043 | 1452 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 59043 | 1455 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 49043 | 1455 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 29043 | 1456 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 99043 | 1456 | |
| 1.000000-5 | 1.900000+0 | 0 | 0 | 0 | | 09043 | 2151 | |
| 1.000000-5 | 2.000000+2 | 0 | 0 | 0 | | 09043 | 2151 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 1199043 | 3 | 1 |

| | | | | | |
|------------------------|---|---|---|--------------|---------------|
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 889043 3 1 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 1189043 3 2 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 2 | 449043 3 2 | |
| 0.000000+0-6.040000+3 | 0 | 0 | 1 | 899043 3 4 | |
| 0.000000+0-1.687000+4 | 0 | 0 | 1 | 419043 3 4 | |
| -4.786390+6-4.786390+6 | 0 | 0 | 1 | 329043 3 16 | |
| -4.786590+6-4.786590+6 | 0 | 0 | 1 | 159043 3 16 | |
| -1.122670+7-1.122670+7 | 0 | 0 | 1 | 189043 3 17 | |
| -1.122330+7-1.122330+7 | 0 | 0 | 1 | 89043 3 17 | |
| 1.909000+8 1.909000+8 | 0 | 0 | 1 | 1109043 3 18 | |
| 1.849990+8 1.849990+8 | 0 | 0 | 1 | 569043 3 18 | |
| | | | | 9043 3 19 | Only in VII.1 |
| | | | | 9043 3 20 | Only in VII.1 |
| | | | | 9043 3 21 | Only in VII.1 |
| | | | | 9043 3 37 | Only in VII.1 |
| | | | | 9043 3 38 | Only in VII.1 |
| 0.000000+0-6.040000+3 | 0 | 0 | 1 | 889043 3 51 | |
| 0.000000+0-1.687000+4 | 0 | 0 | 1 | 269043 3 51 | |
| 0.000000+0-6.060000+3 | 0 | 0 | 1 | 879043 3 52 | |
| 0.000000+0-5.455990+4 | 0 | 0 | 1 | 239043 3 52 | |
| 0.000000+0-1.686000+4 | 0 | 0 | 1 | 849043 3 53 | |
| 0.000000+0-9.362990+4 | 0 | 0 | 1 | 219043 3 53 | |
| 0.000000+0-5.038000+4 | 0 | 0 | 1 | 809043 3 54 | |
| 0.000000+0-3.712090+5 | 0 | 0 | 1 | 179043 3 54 | |
| 0.000000+0-5.454600+4 | 0 | 0 | 1 | 799043 3 55 | |
| 0.000000+0-5.395780+5 | 0 | 0 | 1 | 169043 3 55 | |
| 0.000000+0-9.362000+4 | 0 | 0 | 1 | 779043 3 56 | |
| 0.000000+0-5.839290+5 | 0 | 0 | 1 | 169043 3 56 | |
| 0.000000+0-1.073400+5 | 0 | 0 | 1 | 759043 3 57 | |
| 0.000000+0-6.114990+5 | 0 | 0 | 1 | 159043 3 57 | |
| 0.000000+0-1.441000+5 | 0 | 0 | 1 | 729043 3 58 | |
| 0.000000+0-6.290190+5 | 0 | 0 | 1 | 159043 3 58 | |
| 0.000000+0-1.580000+5 | 0 | 0 | 1 | 719043 3 59 | |
| 0.000000+0-6.821990+5 | 0 | 0 | 1 | 159043 3 59 | |
| 0.000000+0-1.780000+5 | 0 | 0 | 1 | 699043 3 60 | |
| 0.000000+0-7.134990+5 | 0 | 0 | 1 | 159043 3 60 | |
| 0.000000+0-2.200000+5 | 0 | 0 | 1 | 679043 3 61 | |
| 0.000000+0-7.217990+5 | 0 | 0 | 1 | 159043 3 61 | |
| 0.000000+0-2.523000+5 | 0 | 0 | 1 | 659043 3 62 | |
| 0.000000+0-7.694990+5 | 0 | 0 | 1 | 159043 3 62 | |
| 0.000000+0-2.622400+5 | 0 | 0 | 1 | 649043 3 63 | |
| 0.000000+0-8.144980+5 | 0 | 0 | 1 | 149043 3 63 | |
| 0.000000+0-2.794000+5 | 0 | 0 | 1 | 639043 3 64 | |
| 0.000000+0-8.913990+5 | 0 | 0 | 1 | 149043 3 64 | |
| 0.000000+0-3.095000+5 | 0 | 0 | 1 | 619043 3 65 | |
| 0.000000+0-9.475980+5 | 0 | 0 | 1 | 149043 3 65 | |
| | | | | 9043 3 66 | Only in VII.1 |
| | | | | 9043 3 67 | Only in VII.1 |
| | | | | 9043 3 68 | Only in VII.1 |
| | | | | 9043 3 69 | Only in VII.1 |
| | | | | 9043 3 70 | Only in VII.1 |
| 0.000000+0-1.043520+5 | 0 | 0 | 1 | 769043 3 91 | |
| 0.000000+0-9.499990+5 | 0 | 0 | 1 | 149043 3 91 | |

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|-------------|------------|---|---|---|---------|------|----|---------------|
| 6.190270+6 | 6.190270+6 | 0 | 0 | 1 | 1109043 | 3102 | | |
| 6.191990+6 | 6.191990+6 | 0 | 0 | 1 | 439043 | 3102 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1089043 | 4 | 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 309043 | 4 | 2 | |
| | | | | | 9043 | 4 | 16 | Only in VII.0 |
| | | | | | 9043 | 4 | 17 | Only in VII.0 |
| 0.000000+0 | 2.310400+2 | 1 | 1 | 0 | 09043 | 4 | 18 | |
| 0.000000+0 | 2.310400+2 | 0 | 1 | 0 | 09043 | 4 | 18 | |
| | | | | | 9043 | 4 | 51 | Only in VII.0 |
| | | | | | 9043 | 4 | 52 | Only in VII.0 |
| | | | | | 9043 | 4 | 53 | Only in VII.0 |
| | | | | | 9043 | 4 | 54 | Only in VII.0 |
| | | | | | 9043 | 4 | 55 | Only in VII.0 |
| | | | | | 9043 | 4 | 56 | Only in VII.0 |
| | | | | | 9043 | 4 | 57 | Only in VII.0 |
| | | | | | 9043 | 4 | 58 | Only in VII.0 |
| | | | | | 9043 | 4 | 59 | Only in VII.0 |
| | | | | | 9043 | 4 | 60 | Only in VII.0 |
| | | | | | 9043 | 4 | 61 | Only in VII.0 |
| | | | | | 9043 | 4 | 62 | Only in VII.0 |
| | | | | | 9043 | 4 | 63 | Only in VII.0 |
| | | | | | 9043 | 4 | 64 | Only in VII.0 |
| | | | | | 9043 | 4 | 65 | Only in VII.0 |
| | | | | | 9043 | 4 | 91 | Only in VII.0 |
| | | | | | 9043 | 5 | 16 | Only in VII.0 |
| | | | | | 9043 | 5 | 17 | Only in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29043 | 5 | 18 | |
| -2.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29043 | 5 | 18 | |
| | | | | | 9043 | 5 | 91 | Only in VII.0 |
| | | | | | 9043 | 6 | 16 | Only in VII.1 |
| | | | | | 9043 | 6 | 17 | Only in VII.1 |
| | | | | | 9043 | 6 | 37 | Only in VII.1 |
| | | | | | 9043 | 6 | 51 | Only in VII.1 |
| | | | | | 9043 | 6 | 52 | Only in VII.1 |
| | | | | | 9043 | 6 | 53 | Only in VII.1 |
| | | | | | 9043 | 6 | 54 | Only in VII.1 |
| | | | | | 9043 | 6 | 55 | Only in VII.1 |
| | | | | | 9043 | 6 | 56 | Only in VII.1 |
| | | | | | 9043 | 6 | 57 | Only in VII.1 |
| | | | | | 9043 | 6 | 58 | Only in VII.1 |
| | | | | | 9043 | 6 | 59 | Only in VII.1 |
| | | | | | 9043 | 6 | 60 | Only in VII.1 |
| | | | | | 9043 | 6 | 61 | Only in VII.1 |
| | | | | | 9043 | 6 | 62 | Only in VII.1 |
| | | | | | 9043 | 6 | 63 | Only in VII.1 |
| | | | | | 9043 | 6 | 64 | Only in VII.1 |
| | | | | | 9043 | 6 | 65 | Only in VII.1 |
| | | | | | 9043 | 6 | 66 | Only in VII.1 |
| | | | | | 9043 | 6 | 67 | Only in VII.1 |
| | | | | | 9043 | 6 | 68 | Only in VII.1 |
| | | | | | 9043 | 6 | 69 | Only in VII.1 |
| | | | | | 9043 | 6 | 70 | Only in VII.1 |
| | | | | | 9043 | 6 | 91 | Only in VII.1 |
| | | | | | 9043 | 6102 | | Only in VII.1 |
| 90-Th-234 | | | | | | | | |
| ***** | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49046 | 1452 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 119046 | 1452 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49046 | 1455 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 69046 | 1455 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49046 | 1456 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 119046 | 1456 | | |
| 1.000000-5 | 2.000000+1 | 0 | 0 | 0 | 09046 | 2151 | | |
| 1.000000-5 | 1.500000+1 | 0 | 0 | 0 | 09046 | 2151 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1119046 | 3 | 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 929046 | 3 | 1 | |

| | | | | | | | | |
|-------------|-------------|---|---|---|---------|---|-----|---------------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1029046 | 3 | 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 509046 | 3 | 2 | |
| ----- | | | | | | | | |
| 0.000000+0 | -4.955000+4 | 0 | 0 | 1 | 699046 | 3 | 4 | |
| 0.000000+0 | -4.799990+4 | 0 | 0 | 1 | 409046 | 3 | 4 | |
| ----- | | | | | | | | |
| -6.190270+6 | -6.190270+6 | 0 | 0 | 1 | 299046 | 3 | 16 | |
| -6.191990+6 | -6.191990+6 | 0 | 0 | 1 | 149046 | 3 | 16 | |
| ----- | | | | | | | | |
| -1.097670+7 | -1.097670+7 | 0 | 0 | 1 | 199046 | 3 | 17 | |
| -1.097860+7 | -1.097860+7 | 0 | 0 | 1 | 99046 | 3 | 17 | |
| ----- | | | | | | | | |
| 1.895000+8 | 1.895000+8 | 0 | 0 | 1 | 929046 | 3 | 18 | |
| 1.849990+8 | 1.849990+8 | 0 | 0 | 1 | 229046 | 3 | 18 | |
| ----- | | | | | | | | |
| | | | | | 9046 | 3 | 19 | Only in VII.1 |
| | | | | | 9046 | 3 | 20 | Only in VII.1 |
| | | | | | 9046 | 3 | 21 | Only in VII.1 |
| | | | | | 9046 | 3 | 37 | Only in VII.1 |
| | | | | | 9046 | 3 | 38 | Only in VII.1 |
| 0.000000+0 | -4.955000+4 | 0 | 0 | 1 | 689046 | 3 | 51 | |
| 0.000000+0 | -4.799990+4 | 0 | 0 | 1 | 239046 | 3 | 51 | |
| ----- | | | | | | | | |
| 0.000000+0 | -1.630000+5 | 0 | 0 | 1 | 629046 | 3 | 52 | |
| 0.000000+0 | -1.600000+5 | 0 | 0 | 1 | 199046 | 3 | 52 | |
| ----- | | | | | | | | |
| 0.000000+0 | -3.365000+5 | 0 | 0 | 1 | 579046 | 3 | 53 | |
| 0.000000+0 | -3.360000+5 | 0 | 0 | 1 | 179046 | 3 | 53 | |
| ----- | | | | | | | | |
| 0.000000+0 | -5.648000+5 | 0 | 0 | 1 | 549046 | 3 | 54 | |
| 0.000000+0 | -5.759990+5 | 0 | 0 | 1 | 159046 | 3 | 54 | |
| ----- | | | | | | | | |
| | | | | | 9046 | 3 | 55 | Only in VII.0 |
| | | | | | 9046 | 3 | 56 | Only in VII.0 |
| | | | | | 9046 | 3 | 57 | Only in VII.0 |
| | | | | | 9046 | 3 | 58 | Only in VII.0 |
| | | | | | 9046 | 3 | 59 | Only in VII.0 |
| | | | | | 9046 | 3 | 60 | Only in VII.0 |
| | | | | | 9046 | 3 | 61 | Only in VII.0 |
| | | | | | 9046 | 3 | 62 | Only in VII.0 |
| | | | | | 9046 | 3 | 63 | Only in VII.0 |
| | | | | | 9046 | 3 | 64 | Only in VII.0 |
| | | | | | 9046 | 3 | 65 | Only in VII.0 |
| | | | | | 9046 | 3 | 66 | Only in VII.0 |
| | | | | | 9046 | 3 | 67 | Only in VII.0 |
| 0.000000+0 | -1.104740+5 | 0 | 0 | 1 | 659046 | 3 | 91 | |
| 0.000000+0 | -1.060000+6 | 0 | 0 | 1 | 139046 | 3 | 91 | |
| ----- | | | | | | | | |
| 4.430250+6 | 4.430250+6 | 0 | 0 | 1 | 889046 | 3 | 102 | |
| 4.533690+6 | 4.533690+6 | 0 | 0 | 1 | 519046 | 3 | 102 | |
| ----- | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 929046 | 4 | 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 309046 | 4 | 2 | |
| ----- | | | | | | | | |
| | | | | | 9046 | 4 | 16 | Only in VII.0 |
| | | | | | 9046 | 4 | 17 | Only in VII.0 |
| 0.000000+0 | 2.320330+2 | 1 | 1 | 0 | 09046 | 4 | 18 | |
| 0.000000+0 | 2.320330+2 | 0 | 1 | 0 | 09046 | 4 | 18 | |
| ----- | | | | | | | | |
| | | | | | 9046 | 4 | 51 | Only in VII.0 |
| | | | | | 9046 | 4 | 52 | Only in VII.0 |
| | | | | | 9046 | 4 | 53 | Only in VII.0 |
| | | | | | 9046 | 4 | 54 | Only in VII.0 |
| | | | | | 9046 | 4 | 55 | Only in VII.0 |
| | | | | | 9046 | 4 | 56 | Only in VII.0 |
| | | | | | 9046 | 4 | 57 | Only in VII.0 |
| | | | | | 9046 | 4 | 58 | Only in VII.0 |
| | | | | | 9046 | 4 | 59 | Only in VII.0 |
| | | | | | 9046 | 4 | 60 | Only in VII.0 |
| | | | | | 9046 | 4 | 61 | Only in VII.0 |
| | | | | | 9046 | 4 | 62 | Only in VII.0 |
| | | | | | 9046 | 4 | 63 | Only in VII.0 |
| | | | | | 9046 | 4 | 64 | Only in VII.0 |
| | | | | | 9046 | 4 | 65 | Only in VII.0 |
| | | | | | 9046 | 4 | 66 | Only in VII.0 |

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|------------------------------------|-------------|------------|------------|-------------|------------|---------------|
| | | | | | 9046 4 67 | Only in VII.0 |
| | | | | | 9046 4 91 | Only in VII.0 |
| | | | | | 9046 5 16 | Only in VII.0 |
| | | | | | 9046 5 17 | Only in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29046 5 18 | |
| -2.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29046 5 18 | |
| ----- | | | | | | |
| | | | | | 9046 5 91 | Only in VII.0 |
| | | | | | 9046 6 16 | Only in VII.1 |
| | | | | | 9046 6 17 | Only in VII.1 |
| | | | | | 9046 6 37 | Only in VII.1 |
| | | | | | 9046 6 51 | Only in VII.1 |
| | | | | | 9046 6 52 | Only in VII.1 |
| | | | | | 9046 6 53 | Only in VII.1 |
| | | | | | 9046 6 54 | Only in VII.1 |
| | | | | | 9046 6 91 | Only in VII.1 |
| | | | | | 9046 6102 | Only in VII.1 |
| 91-Pa-229 Evaluation Only in VII.1 | | | | | | |
| ***** | | | | | | |
| 91-Pa-230 Evaluation Only in VII.1 | | | | | | |
| ***** | | | | | | |
| 91-Pa-231 | | | | | | |
| ***** | | | | | | |
| 4.120000+0 | 2.000000+0 | 7.088000-5 | 3.360000-2 | -9.897770-7 | 0.000000+0 | 9131 2151 |
| 4.120000+0 | 2.000000+0 | 7.088000-5 | 3.360000-2 | -9.897771-7 | 0.000000+0 | 9131 2151 |
| ----- | | | | | | |
| 4.585260-3 | 2.345720-3 | 9.917259-4 | 0.000000+0 | | | 9131 4 52 |
| 4.585260-3 | 2.345720-3 | 9.917260-4 | 0.000000+0 | | | 9131 4 52 |
| ----- | | | | | | |
| 5.100000+4 | 4.688810-6 | 6.380000+4 | 2.161330-6 | 7.660000+4 | 9.667521-7 | 9131 6 5 |
| 5.100000+4 | 4.688810-6 | 6.380000+4 | 2.161330-6 | 7.660000+4 | 9.667520-7 | 9131 6 5 |
| ----- | | | | | | |
| 4.125100+5 | 9.751481-7 | 5.500100+5 | 5.853110-7 | 6.875100+5 | 4.654650-7 | 9131 6649 |
| 4.125100+5 | 9.751480-7 | 5.500100+5 | 5.853110-7 | 6.875100+5 | 4.654650-7 | 9131 6649 |
| ----- | | | | | | |
| 91-Pa-232 | | | | | | |
| ***** | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 179134 1452 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 59134 1452 |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 09134 1455 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 6 | | 09134 1455 |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 29134 1456 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 59134 1456 |
| ----- | | | | | | |
| 9.123200+4 | 1.000000+0 | 0 | 0 | 2 | | 09134 2151 |
| 9.123200+4 | 1.000000+0 | 0 | 1 | 1 | | 09134 2151 |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | | 909134 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | | 569134 3 1 |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | | 909134 3 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | | 499134 3 2 |
| ----- | | | | | | |
| 0.000000+0 | -6.000000+4 | 0 | 0 | 1 | | 659134 3 4 |
| 0.000000+0 | -4.999990+4 | 0 | 0 | 1 | | 369134 3 4 |
| ----- | | | | | | |
| -5.549200+6 | -5.549200+6 | 0 | 0 | 1 | | 309134 3 16 |
| -5.560790+6 | -5.560790+6 | 0 | 0 | 1 | | 169134 3 16 |
| ----- | | | | | | |
| -1.236930+7 | -1.236930+7 | 0 | 0 | 1 | | 169134 3 17 |
| -1.237490+7 | -1.237490+7 | 0 | 0 | 1 | | 99134 3 17 |
| ----- | | | | | | |
| 1.895000+8 | 1.895000+8 | 0 | 0 | 2 | | 859134 3 18 |
| 1.999990+8 | 1.999990+8 | 0 | 0 | 2 | | 489134 3 18 |
| ----- | | | | | | |
| | | | | | 9134 3 19 | Only in VII.1 |
| | | | | | 9134 3 20 | Only in VII.1 |
| | | | | | 9134 3 21 | Only in VII.1 |
| -1.816410+7 | -1.816410+7 | 0 | 0 | 1 | | 49134 3 37 |
| -1.816810+7 | -1.816810+7 | 0 | 0 | 1 | | 39134 3 37 |
| ----- | | | | | | |
| | | | | | 9134 3 38 | Only in VII.1 |
| | | | | | 9134 3 51 | Only in VII.1 |

| | | | | |
|---|-----------|---|---|-------------------------|
| 0.000000+0-1.104780+5 | 0 | 0 | 1 | 629134 3 91 |
| 0.000000+0-4.999990+4 | 0 | 0 | 1 | 369134 3 91 |
| 6.529060+6 6.529060+6 | 0 | 0 | 2 | 859134 3102 |
| 6.516690+6 6.516690+6 | 0 | 0 | 2 | 499134 3102 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 899134 4 2 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 529134 4 2 |
| | | | | 9134 4 16 Only in VII.0 |
| | | | | 9134 4 17 Only in VII.0 |
| 0.000000+0 2.300450+2 | 1 | 1 | 0 | 09134 4 18 |
| 0.000000+0 2.300450+2 | 0 | 1 | 0 | 09134 4 18 |
| | | | | 9134 4 37 Only in VII.0 |
| | | | | 9134 4 91 Only in VII.0 |
| | | | | 9134 5 16 Only in VII.0 |
| | | | | 9134 5 17 Only in VII.0 |
| 0.000000+0 0.000000+0 | 0 | 1 | 1 | 29134 5 18 |
| -2.000000+7 0.000000+0 | 0 | 7 | 1 | 29134 5 18 |
| | | | | 9134 5 37 Only in VII.0 |
| | | | | 9134 5 91 Only in VII.0 |
| | | | | 9134 6 16 Only in VII.1 |
| | | | | 9134 6 17 Only in VII.1 |
| | | | | 9134 6 37 Only in VII.1 |
| | | | | 9134 6 51 Only in VII.1 |
| | | | | 9134 6 91 Only in VII.1 |
| | | | | 9134 6102 Only in VII.1 |
| 91-Pa-233 | | | | |
| ***** | | | | |
| 1.112000+5 1.616910-6 1.297000+5 9.695329-7 1.482000+5 5.795140-7 | 9137 6 5 | | | |
| 1.112000+5 1.616910-6 1.297000+5 9.695330-7 1.482000+5 5.795140-7 | 9137 6 5 | | | |
| 7.310000+4 1.606190-6 7.610000+4 1.449460-6 8.220000+4 9.576941-7 | 9137 6 91 | | | |
| 7.310000+4 1.606190-6 7.610000+4 1.449460-6 8.220000+4 9.576940-7 | 9137 6 91 | | | |
| 92-U -230 Evaluation Only in VII.1 | | | | |
| ***** | | | | |
| 92-U -231 Evaluation Only in VII.1 | | | | |
| ***** | | | | |
| 92-U -232 | | | | |
| ***** | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 49219 1452 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 59219 1452 |
| 1.280000-2 3.500000-2 1.073000-1 2.557000-1 6.626000-1 2.025400+0 | 9219 1455 | | | |
| 1.247732-2 3.229539-2 1.009784-1 2.801023-1 1.264485+0 1.046279+1 | 9219 1455 | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 29219 1456 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 59219 1456 |
| | | | | 9219 1458 Only in VII.1 |
| 9.223200+4 1.000000+0 | 0 | 0 | 2 | 09219 2151 |
| 9.223200+4 1.000000+0 | 0 | 1 | 2 | 09219 2151 |
| 0.000000+0 0.000000+0 | 0 | 0 | 2 | 4489219 3 1 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 4529219 3 1 |
| 0.000000+0 0.000000+0 | 0 | 0 | 2 | 1099219 3 2 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 4529219 3 2 |
| | | | | 9219 3 3 Only in VII.0 |
| 0.000000+0-4.757200+4 | 0 | 0 | 1 | 829219 3 4 |
| 0.000000+0-4.760000+4 | 0 | 0 | 1 | 2559219 3 4 |
| -7.267950+6-7.267950+6 | 0 | 0 | 1 | 279219 3 16 |
| -7.264400+6-7.264400+6 | 0 | 0 | 1 | 749219 3 16 |
| -1.314660+7-1.314660+7 | 0 | 0 | 1 | 159219 3 17 |
| -1.315580+7-1.315580+7 | 0 | 0 | 1 | 509219 3 17 |
| 1.845840+8 1.845840+8 | 0 | 0 | 2 | 3439219 3 18 |
| 1.889990+8 1.889990+8 | 0 | 0 | 1 | 3739219 3 18 |

| | | | | | | | | |
|-----------------------|------------|---|---|---|---------|---|----|---------------|
| 1.845840+8 | 1.845840+8 | 0 | 0 | 2 | 3369219 | 3 | 19 | |
| 1.889990+8 | 1.889990+8 | 0 | 0 | 1 | 3739219 | 3 | 19 | |
| 1.845840+8 | 1.845840+8 | 0 | 0 | 1 | 419219 | 3 | 20 | |
| 1.889990+8 | 1.889990+8 | 0 | 0 | 1 | 2879219 | 3 | 20 | |
| 1.845840+8 | 1.845840+8 | 0 | 0 | 1 | 189219 | 3 | 21 | |
| 1.889990+8 | 1.889990+8 | 0 | 0 | 1 | 1429219 | 3 | 21 | |
| | | | | | 9219 | 3 | 37 | Only in VII.0 |
| 1.845840+8 | 1.845840+8 | 0 | 0 | 1 | 109219 | 3 | 38 | |
| 1.889990+8 | 1.889990+8 | 0 | 0 | 1 | 879219 | 3 | 38 | |
| 0.000000+0-4.757200+4 | | 0 | 0 | 1 | 819219 | 3 | 51 | |
| 0.000000+0-4.760000+4 | | 0 | 0 | 1 | 2559219 | 3 | 51 | |
| 0.000000+0-1.565700+5 | | 0 | 0 | 1 | 759219 | 3 | 52 | |
| 0.000000+0-1.566000+5 | | 0 | 0 | 1 | 2459219 | 3 | 52 | |
| 0.000000+0-3.226000+5 | | 0 | 0 | 1 | 709219 | 3 | 53 | |
| 0.000000+0-3.223000+5 | | 0 | 0 | 1 | 2349219 | 3 | 53 | |
| 0.000000+0-5.410000+5 | | 0 | 0 | 1 | 679219 | 3 | 54 | |
| 0.000000+0-5.407000+5 | | 0 | 0 | 1 | 2209219 | 3 | 54 | |
| 0.000000+0-5.631940+5 | | 0 | 0 | 1 | 669219 | 3 | 55 | |
| 0.000000+0-5.632000+5 | | 0 | 0 | 1 | 2179219 | 3 | 55 | |
| 0.000000+0-6.289670+5 | | 0 | 0 | 1 | 649219 | 3 | 56 | |
| 0.000000+0-6.290000+5 | | 0 | 0 | 1 | 2139219 | 3 | 56 | |
| 0.000000+0-6.912100+5 | | 0 | 0 | 1 | 639219 | 3 | 57 | |
| 0.000000+0-6.911000+5 | | 0 | 0 | 1 | 2089219 | 3 | 57 | |
| 0.000000+0-7.345600+5 | | 0 | 0 | 1 | 619219 | 3 | 58 | |
| 0.000000+0-7.346000+5 | | 0 | 0 | 1 | 2059219 | 3 | 58 | |
| 0.000000+0-7.469000+5 | | 0 | 0 | 1 | 609219 | 3 | 59 | |
| 0.000000+0-8.055000+5 | | 0 | 0 | 1 | 1999219 | 3 | 59 | |
| 0.000000+0-8.058000+5 | | 0 | 0 | 1 | 589219 | 3 | 60 | |
| 0.000000+0-8.330000+5 | | 0 | 0 | 1 | 1979219 | 3 | 60 | |
| 0.000000+0-8.330700+5 | | 0 | 0 | 1 | 579219 | 3 | 61 | |
| 0.000000+0-8.668000+5 | | 0 | 0 | 1 | 1939219 | 3 | 61 | |
| 0.000000+0-8.667920+5 | | 0 | 0 | 1 | 569219 | 3 | 62 | |
| 0.000000+0-9.114000+5 | | 0 | 0 | 1 | 1909219 | 3 | 62 | |
| 0.000000+0-9.114200+5 | | 0 | 0 | 1 | 549219 | 3 | 63 | |
| 0.000000+0-9.707000+5 | | 0 | 0 | 1 | 1859219 | 3 | 63 | |
| 0.000000+0-9.151000+5 | | 0 | 0 | 1 | 539219 | 3 | 64 | |
| 0.000000+0-9.852000+5 | | 0 | 0 | 1 | 1839219 | 3 | 64 | |
| 0.000000+0-9.706800+5 | | 0 | 0 | 1 | 529219 | 3 | 65 | |
| 0.000000+0-1.016900+6 | | 0 | 0 | 1 | 1809219 | 3 | 65 | |
| 0.000000+0-9.848000+5 | | 0 | 0 | 1 | 519219 | 3 | 66 | |
| 0.000000+0-1.050900+6 | | 0 | 0 | 1 | 1769219 | 3 | 66 | |
| 0.000000+0-1.016850+6 | | 0 | 0 | 1 | 499219 | 3 | 67 | |
| 0.000000+0-1.097200+6 | | 0 | 0 | 1 | 1729219 | 3 | 67 | |
| | | | | | 9219 | 3 | 68 | Only in VII.0 |
| | | | | | 9219 | 3 | 69 | Only in VII.0 |
| | | | | | 9219 | 3 | 70 | Only in VII.0 |
| | | | | | 9219 | 3 | 71 | Only in VII.0 |
| | | | | | 9219 | 3 | 72 | Only in VII.0 |
| | | | | | 9219 | 3 | 73 | Only in VII.0 |
| | | | | | 9219 | 3 | 74 | Only in VII.0 |
| | | | | | 9219 | 3 | 75 | Only in VII.0 |
| | | | | | 9219 | 3 | 76 | Only in VII.0 |
| | | | | | 9219 | 3 | 77 | Only in VII.0 |
| | | | | | 9219 | 3 | 78 | Only in VII.0 |

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| | | | | | 9219 3 79 Only in VII.0 |
| | | | | | 9219 3 80 Only in VII.0 |
| | | | | | 9219 3 81 Only in VII.0 |
| | | | | | 9219 3 82 Only in VII.0 |
| | | | | | 9219 3 83 Only in VII.0 |
| | | | | | 9219 3 84 Only in VII.0 |
| | | | | | 9219 3 85 Only in VII.0 |
| | | | | | 9219 3 86 Only in VII.0 |
| | | | | | 9219 3 87 Only in VII.0 |
| | | | | | 9219 3 88 Only in VII.0 |
| | | | | | 9219 3 89 Only in VII.0 |
| | | | | | 9219 3 90 Only in VII.0 |
| 0.000000+0-1.104780+5 | 0 | 0 | 1 | 789219 3 91 | |
| 0.000000+0-1.050000+6 | 0 | 0 | 1 | 1779219 3 91 | |
| ----- | | | | | |
| 5.762090+6 5.762090+6 | 0 | 0 | 2 | 969219 3102 | |
| 5.743400+6 5.743400+6 | 0 | 0 | 1 | 2359219 3102 | |
| ----- | | | | | |
| 0.000000+0 2.300440+2 | 0 | 2 | 0 | 09219 4 2 | |
| 0.000000+0 2.300438+2 | 0 | 2 | 0 | 09219 4 2 | |
| ----- | | | | | |
| 0.000000+0 2.300440+2 | 1 | 1 | 0 | 09219 4 18 | |
| 0.000000+0 2.320304+2 | 1 | 1 | 0 | 09219 4 18 | |
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| | | | | | 9219 4 19 Only in VII.0 |
| | | | | | 9219 4 20 Only in VII.0 |
| | | | | | 9219 4 21 Only in VII.0 |
| | | | | | 9219 4 38 Only in VII.0 |
| | | | | | 9219 4 51 Only in VII.0 |
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| | | | | | 9219 4 69 Only in VII.0 |
| | | | | | 9219 4 70 Only in VII.0 |
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| | | | | | 9219 4 72 Only in VII.0 |
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| | | | | | 9219 4 86 Only in VII.0 |
| | | | | | 9219 4 87 Only in VII.0 |
| | | | | | 9219 4 88 Only in VII.0 |
| | | | | | 9219 4 89 Only in VII.0 |
| | | | | | 9219 4 90 Only in VII.0 |
| 0.000000+0 0.000000+0 | 0 | 1 | 1 | 29219 5 18 | |
| -3.000000+7 0.000000+0 | 0 | 7 | 1 | 29219 5 18 | |
| ----- | | | | | |
| | | | | | 9219 5 19 Only in VII.0 |
| | | | | | 9219 5 20 Only in VII.0 |
| | | | | | 9219 5 21 Only in VII.0 |
| | | | | | 9219 5 38 Only in VII.0 |

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|--------------|--------------|--------------|------------|--------------|---------------------|
| 7.299540+6 | 2.000000+0 | 2.000000+7 | 2.000000+0 | 9219 5455 | Only in VII.1 |
| 7.295958+6 | 2.000000+0 | 3.000000+7 | 2.000000+0 | 9219 6 16 | |
| 1.320380+7 | 3.000000+0 | 2.000000+7 | 3.000000+0 | 9219 6 17 | |
| 1.321295+7 | 3.000000+0 | 3.000000+7 | 3.000000+0 | 9219 6 17 | |
| | | | | 9219 6 37 | Only in VII.0 |
| | | | | 9219 6 51 | Only in VII.1 |
| | | | | 9219 6 52 | Only in VII.1 |
| | | | | 9219 6 53 | Only in VII.1 |
| | | | | 9219 6 54 | Only in VII.1 |
| | | | | 9219 6 55 | Only in VII.1 |
| | | | | 9219 6 56 | Only in VII.1 |
| | | | | 9219 6 57 | Only in VII.1 |
| | | | | 9219 6 58 | Only in VII.1 |
| | | | | 9219 6 59 | Only in VII.1 |
| | | | | 9219 6 60 | Only in VII.1 |
| | | | | 9219 6 61 | Only in VII.1 |
| | | | | 9219 6 62 | Only in VII.1 |
| | | | | 9219 6 63 | Only in VII.1 |
| | | | | 9219 6 64 | Only in VII.1 |
| | | | | 9219 6 65 | Only in VII.1 |
| | | | | 9219 6 66 | Only in VII.1 |
| | | | | 9219 6 67 | Only in VII.1 |
| 1.109580+5 | 1.000000+0 | 2.000000+7 | 1.000000+0 | 9219 6 91 | |
| 1.054564+6 | 1.000000+0 | 3.000000+7 | 1.000000+0 | 9219 6 91 | |
| | | | | 9219 6102 | Only in VII.1 |
| 92-U -233 | | | | | |
| ***** | | | | | |
| 1.291100-2 | 3.473800-2 | 1.192800-1 | 2.861700-1 | 7.877000-1 | 2.441700+09222 1455 |
| 1.247938-2 | 3.227449-2 | 1.046448-1 | 2.941518-1 | 1.242443+0 | 1.022323+19222 1455 |
| 4.200000+6 | 9.615540-7 | 4.300000+6 | 1.850741-6 | 4.400000+6 | 2.801157-69222 3 20 |
| 4.200000+6 | 9.615539-7 | 4.300000+6 | 1.850741-6 | 4.400000+6 | 2.801157-69222 3 20 |
| 0.000000+0 | 1.287773-3 | 0.000000+0 | 9.999553-4 | 0.000000+0 | 5.004197-49222 4 73 |
| 0.000000+0 | 1.287773-3 | 0.000000+0 | 9.999554-4 | 0.000000+0 | 5.004197-49222 4 73 |
| 0.000000+0 | 3.919730-2 | 0.000000+0-2 | 3.38696-3 | 0.000000+0-9 | 9.921961-49222 4 76 |
| 0.000000+0 | 3.919730-2 | 0.000000+0-2 | 3.38696-3 | 0.000000+0-9 | 9.921962-49222 4 76 |
| 0.000000+0-9 | 9.948215-4 | 0.000000+0-4 | 4.82757-4 | 0.000000+0-2 | 0.057007-49222 4 81 |
| 0.000000+0-9 | 9.948216-4 | 0.000000+0-4 | 4.82757-4 | 0.000000+0-2 | 0.057007-49222 4 81 |
| 1.000000-5 | 8.593243-2 | 2.000000+7 | 8.593243-2 | 9222 5455 | |
| 1.000000-5 | 8.675847-2 | 3.000000+7 | 8.675847-2 | 9222 5455 | |
| 0.000000+0 | 9.976307-7 | 6.845140-3 | 7.467678+3 | 1.815699-6 | 6.914244-39222 6 17 |
| 0.000000+0 | 9.976306-7 | 6.845140-3 | 7.467678+3 | 1.815699-6 | 6.914244-39222 6 17 |
| 92-U -234 | | | | | |
| ***** | | | | | |
| 1.308200-2 | 3.368400-2 | 1.209500-1 | 2.951700-1 | 8.136300-1 | 2.572100+09225 1455 |
| 1.248240-2 | 3.129530-2 | 1.074630-1 | 3.032230-1 | 1.288730+0 | 1.044220+19225 1455 |
| 2.274000+1 | 5.000000-1 | 2.603050-2 | 1.800000-5 | 2.600000-2 | 1.250000-59225 2151 |
| 2.274000+1 | 5.000000-1 | 2.603000-2 | 1.800000-5 | 2.600000-2 | 1.250000-59225 2151 |
| 1.480000+6 | 9.509682-4 | 1.500000+6 | 9.861999-4 | 1.520000+6 | 1.021398-39225 3 54 |
| 1.480000+6 | 9.509682-4 | 1.500000+6 | 9.862000-4 | 1.520000+6 | 1.021398-39225 3 54 |
| 2.650000+7 | 1.033863-3 | 2.700000+7 | 1.015322-3 | 2.750000+7 | 9.977483-49225 3 61 |
| 2.650000+7 | 1.033863-3 | 2.700000+7 | 1.015322-3 | 2.750000+7 | 9.977484-49225 3 61 |
| 2.750000+7 | 9.977483-4 | 2.800000+7 | 9.812100-4 | 2.850000+7 | 9.658632-49225 3 62 |
| 2.750000+7 | 9.977484-4 | 2.800000+7 | 9.812100-4 | 2.850000+7 | 9.658632-49225 3 62 |
| 2.750000+7 | 9.977483-4 | 2.800000+7 | 9.812100-4 | 2.850000+7 | 9.658632-49225 3 64 |
| 2.750000+7 | 9.977484-4 | 2.800000+7 | 9.812100-4 | 2.850000+7 | 9.658632-49225 3 64 |
| 9.866999-4-1 | 5.800000-4-1 | 9.860000-4 | 0.000000+0 | 9225 4 52 | |
| 9.867000-4-1 | 5.800000-4-1 | 9.860000-4 | 0.000000+0 | 9225 4 52 | |

| | | | |
|--|---------------------------|------|----------------|
| 1.207000-1-1.111000-2-1.818000-2-5.383000-3 | 4.023000-3-9.861001-49225 | 4 | 53 |
| 1.207000-1-1.111000-2-1.818000-2-5.383000-3 | 4.023000-3-9.861000-49225 | 4 | 53 |
| ----- | | | |
| 7.499000-2 3.372000-3 1.095000-4 9.945001-7 | 1.877000-6 8.917000-69225 | 4 | 60 |
| 7.499000-2 3.372000-3 1.095000-4 9.945000-7 | 1.877000-6 8.917000-69225 | 4 | 60 |
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| 9.860001-4 1.355000-2 1.144000-6-1.119000-2 | 2.608000-6-6.958000-49225 | 4 | 71 |
| 9.860000-4 1.355000-2 1.144000-6-1.119000-2 | 2.608000-6-6.958000-49225 | 4 | 71 |
| ----- | | | |
| 6.692000-4 3.344000-3 9.712001-7 2.593000-6-7.279000-8-3.602000-89225 | 4 | 76 | |
| 6.692000-4 3.344000-3 9.712000-7 2.593000-6-7.279000-8-3.602000-89225 | 4 | 76 | |
| ----- | | | |
| 1.000000-5 5.496524-2 2.000000+7 5.496524-2 | | 9225 | 5455 |
| 1.000000-5 5.623233-2 3.000000+7 5.623233-2 | | 9225 | 5455 |
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| 5.476398+4 9.822145-8 9.865809-4 6.472107+4 | 1.060994-7 1.004135-39225 | 6 | 16 |
| 5.476398+4 9.822145-8 9.865808-4 6.472107+4 | 1.060994-7 1.004135-39225 | 6 | 16 |
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| 2.364808+4 9.724685-7 1.222921-1 2.738199+4 | 1.035056-6 1.415931-19225 | 6 | 91 |
| 2.364808+4 9.724684-7 1.222921-1 2.738199+4 | 1.035056-6 1.415931-19225 | 6 | 91 |
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| 92-U -235 | | | |
| ***** | | | |
| 1.333600-2 3.273900-2 1.207800-1 3.027800-1 | 8.494900-1 2.853000+09228 | 1455 | |
| 1.249056-2 3.182406-2 1.093753-1 3.169898-1 | 1.353983+0 8.636377+09228 | 1455 | |
| ----- | | | |
| 1.830000+2 1.673394-3 1.840000+2 1.823250-3 | 1.850000+2 9.815576-49228 | 1460 | |
| 1.830000+2 1.673394-3 1.840000+2 1.823250-3 | 1.850000+2 9.815577-49228 | 1460 | |
| ----- | | | |
| 6.911070+2 4.000000+0 9.916601-4 4.319600-2-2.550100-2-2.599400-29228 | 2151 | | |
| 6.911070+2 4.000000+0 9.916600-4 4.319600-2-2.550100-2-2.599400-29228 | 2151 | | |
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| 1.000000-5 0.000000+0 7.712958+1 0.000000+0 | 2.250000+3 0.000000+09228 | 3 | 19 |
| 1.000000-5 2.19639-43 7.712958+1 0.000000+0 | 2.250000+3 0.000000+09228 | 3 | 19 |
| ----- | | | |
| -2.123213-2-5.575145-2 4.503431-2-4.007026-2 | 8.664596-4 9.875596-49228 | 4 | 76 |
| -2.123213-2-5.575145-2 4.503431-2-4.007026-2 | 8.664596-4 9.875595-49228 | 4 | 76 |
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| -5.501023-6-5.653619-6-9.676723-7-1.311852-7-1.349319-8-1.592145-99228 | 4 | 80 | |
| -5.501023-6-5.653619-6-9.676724-7-1.311852-7-1.349319-8-1.592145-99228 | 4 | 80 | |
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| -1.130429-2-9.546876-3-9.897758-4 1.520279-2 1.188212-2 4.399529-39228 | 4 | 89 | |
| -1.130429-2-9.546876-3-9.897757-4 1.520279-2 1.188212-2 4.399529-39228 | 4 | 89 | |
| ----- | | | |
| 0.000000+0 1.000000-5 | 0 | 0 | 1 6439228 5 18 |
| 0.000000+0 1.000000-5 | 0 | 0 | 1 5639228 5 18 |
| ----- | | | |
| 1.000000-5 3.500755-2 2.000000+7 3.500755-2 | | 9228 | 5455 |
| 1.000000-5 3.197266-2 2.000000+7 3.197266-2 | | 9228 | 5455 |
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| 92-U -236 | | | |
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| 1.338000-2 3.215500-2 1.201500-1 3.112900-1 | 8.793600-1 2.840500+09231 | 1455 | |
| 1.248999-2 3.068560-2 1.091980-1 3.224705-1 | 1.378583+0 1.021014+19231 | 1455 | |
| ----- | | | |
| 6.556000+2 5.000000-1 1.164570-1 9.310700-2 | 2.300000-2 3.500000-49231 | 2151 | |
| 6.556000+2 5.000000-1 1.164600-1 9.310700-2 | 2.300000-2 3.500000-49231 | 2151 | |
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| 1.500000+3 1.568000-2 4.539315+4 8.692747-3 | 4.750000+4 8.357362-39231 | 3 | 2 |
| 1.500000+3 2.120000-2 4.539315+4 1.175295-2 | 4.750000+4 1.129949-29231 | 3 | 2 |
| ----- | | | |
| 1.944900+8 1.944900+8 | 0 | 0 | 1 3069231 3 3 |
| 5.125900+6 5.125900+6 | 0 | 0 | 1 3079231 3 3 |
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| 1.000000+5 3.776200-3 1.200000+5 3.200000-3 | 1.500000+5 2.600000-39231 | 3 | 18 |
| 1.000000+5 2.168180-3 1.200000+5 2.138383-3 | 1.500000+5 2.126137-39231 | 3 | 18 |
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| 1.000000+5 3.776200-3 1.200000+5 3.200000-3 | 1.500000+5 2.600000-39231 | 3 | 19 |
| 1.000000+5 2.168180-3 1.200000+5 2.138383-3 | 1.500000+5 2.126137-39231 | 3 | 19 |
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| 4.600000+6 9.847264-4 4.700000+6 2.035577-3 | 4.800000+6 3.477558-39231 | 3 | 20 |
| 4.600000+6 9.847263-4 4.700000+6 2.035577-3 | 4.800000+6 3.477558-39231 | 3 | 20 |
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| 1.900000+7 1.022200-3 1.920000+7 1.009736-3 | 1.940000+7 9.977208-49231 | 3 | 69 |
| 1.900000+7 1.022200-3 1.920000+7 1.009736-3 | 1.940000+7 9.977207-49231 | 3 | 69 |

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1.500000+3 6.072000-2 9.500000+4 3.082233-3 1.000000+5 0.000000+09231 3102
1.500000+3 5.520000-2 9.500000+4 2.802030-3 1.000000+5 0.000000+09231 3102
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-9.135455-1 9.527130-4-8.987940-1 9.749775-4-8.829476-1 9.781579-49231 4 2
-9.135455-1 9.527130-4-8.987940-1 9.749775-4-8.829476-1 9.781578-49231 4 2
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4.373092-6 9.695495-7 1.079881-7 8.610352-9 9.32573-10 7.31001-119231 4 51
4.373092-6 9.695496-7 1.079881-7 8.610352-9 9.32573-10 7.31001-119231 4 51
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0.000000+0-3.930517-2 0.000000+0 9.808810-4 0.000000+0 1.002357-39231 4 68
0.000000+0-3.930517-2 0.000000+0 9.808811-4 0.000000+0 1.002357-39231 4 68
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6.692000-4 3.344000-3 9.712001-7 2.593000-6-7.279000-8-3.602000-89231 4 76
6.692000-4 3.344000-3 9.712000-7 2.593000-6-7.279000-8-3.602000-89231 4 76
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1.000000-5 3.015174-2 2.000000+7 3.015174-2 9231 5455
1.000000-5 2.556350-2 3.000000+7 2.556350-2 9231 5455
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1.244681+6 1.730693-7 8.023971-4 1.344256+6 1.515773-7 9.862575-49231 6 16
1.244681+6 1.730693-7 8.023971-4 1.344256+6 1.515773-7 9.862574-49231 6 16
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92-U -237
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1.376200-2 3.159100-2 1.210700-1 3.162200-1 9.073100-1 3.036800+09234 1455
1.249577-2 3.037978-2 1.068975-1 3.240317-1 1.334253+0 9.544175+09234 1455
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1.000000-5 2.000000+2 1 2 0 09234 2151
1.000000-5 1.025000+2 1 1 0 09234 2151
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0.000000+0 0.000000+0 0 0 1 1179234 3 1
0.000000+0 0.000000+0 0 0 3 1509234 3 1
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0.000000+0 0.000000+0 0 0 1 1179234 3 2
0.000000+0 0.000000+0 0 0 1 1509234 3 2
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0.000000+0 0.000000+0 0 0 1 1179234 3 3
0.000000+0 0.000000+0 0 0 3 1509234 3 3
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1.800000+8 1.800000+8 0 0 1 829234 3 18
1.800000+8 1.800000+8 0 0 3 1059234 3 18
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6.153800+6 6.153800+6 0 0 1 679234 3102
6.153800+6 6.153800+6 0 0 3 919234 3102
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7.662000-2 3.530000-3 1.148000-4 5.537000-6 9.747999-7-2.788000-69234 4 54
7.662000-2 3.530000-3 1.148000-4 5.537000-6 9.748000-7-2.788000-69234 4 54
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1.000000-5 1.522158-2 3.000000+7 1.522158-2 9234 5455
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1.692797+6 9.693127-8 6.088917-4 1.891950+6 7.382647-8 9.935336-49234 6 16
1.692797+6 9.693127-8 6.088917-4 1.891950+6 7.382647-8 9.935337-49234 6 16
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1.493644+5 9.130957-7 2.062296-3 1.692797+5 9.685172-7 2.159910-39234 6 37
1.493644+5 9.130957-7 2.062296-3 1.692797+5 9.685171-7 2.159910-39234 6 37
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2.117647+4 1.265218-6 2.205882+4 9.540925-7 2.294118+4 6.900423-79234 6 91
2.117647+4 1.265218-6 2.205882+4 9.540924-7 2.294118+4 6.900423-79234 6 91
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92-U -238
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1.363000-2 3.133400-2 1.233400-1 3.237300-1 9.059700-1 3.048700+09237 1455
1.249423-2 3.025520-2 1.159376-1 3.414764-1 1.318630+0 9.979027+09237 1455
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1.450000+6 7.478600-4 1.500000+6 8.679900-4 1.550000+6 9.893799-49237 3 62
1.450000+6 7.478600-4 1.500000+6 8.679900-4 1.550000+6 9.893800-49237 3 62
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0.000000+0 1.000000-5 0 0 2 09237 4 2
0.000000+0 1.000000-5 0 0 1 09237 4 2
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7.499000-2 3.372000-3 1.095000-4 9.945001-7 1.877000-6 8.917000-69237 4 65
7.499000-2 3.372000-3 1.095000-4 9.945000-7 1.877000-6 8.917000-69237 4 65
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9.860001-4 1.355000-2 1.144000-6-1.119000-2 2.608000-6-6.958000-49237 4 71

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|-------------|-------------|-------------|-------------|-------------|-------------|---------|------|----|
| 9.860000-4 | 1.355000-2 | 1.144000-6 | 1.119000-2 | 2.608000-6 | 6.958000-4 | 9237 | 4 | 71 |
| -2.123213-2 | -5.575145-2 | 4.503431-2 | -4.007026-2 | 8.664596-4 | 9.875596-4 | 9237 | 4 | 76 |
| -2.123213-2 | -5.575145-2 | 4.503431-2 | -4.007026-2 | 8.664596-4 | 9.875595-4 | 9237 | 4 | 76 |
| -5.501023-6 | -5.653619-6 | -9.676723-7 | -1.311852-7 | -1.349319-8 | -1.592145-9 | 9237 | 4 | 80 |
| -5.501023-6 | -5.653619-6 | -9.676724-7 | -1.311852-7 | -1.349319-8 | -1.592145-9 | 9237 | 4 | 80 |
| -1.130429-2 | -9.546876-3 | -9.897758-4 | 1.520279-2 | 1.188212-2 | 4.399529-3 | 9237 | 4 | 89 |
| -1.130429-2 | -9.546876-3 | -9.897757-4 | 1.520279-2 | 1.188212-2 | 4.399529-3 | 9237 | 4 | 89 |
| 1.000000-5 | 1.393795-2 | 2.000000+7 | 1.393795-2 | | | 9237 | 5455 | |
| 1.000000-5 | 1.034128-2 | 3.000000+7 | 1.034128-2 | | | 9237 | 5455 | |
| 2.489452+5 | 9.729187-7 | 6.176682-3 | 3.485232+5 | 9.581910-7 | 8.405816-3 | 9237 | 6 | 17 |
| 2.489452+5 | 9.729186-7 | 6.176682-3 | 3.485232+5 | 9.581910-7 | 8.405816-3 | 9237 | 6 | 17 |
| 5.601266+5 | 9.995942-7 | 7.343512-4 | 5.850212+5 | 9.759401-7 | 7.577155-4 | 9237 | 6 | 91 |
| 5.601266+5 | 9.995943-7 | 7.343512-4 | 5.850212+5 | 9.759401-7 | 7.577155-4 | 9237 | 6 | 91 |
| 92-U -239 | | | | | | | | |
| ***** | | | | | | | | |
| 9.223900+4 | 1.000000+0 | 0 | 0 | 2 | | 09240 | 2151 | |
| 9.223900+4 | 1.000000+0 | 0 | 1 | 2 | | 09240 | 2151 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 629240 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 1789240 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 889240 | 3 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 1789240 | 3 | 2 |
| 4.826662+6 | 0.000000+0 | 5.000000+6 | 2.972386-2 | 5.250000+6 | 3.402231-1 | 9240 | 3 | 16 |
| 4.826577+6 | 0.000000+0 | 5.000000+6 | 3.024480-2 | 5.250000+6 | 3.462489-1 | 9240 | 3 | 16 |
| -1.095900+7 | -1.095900+7 | 0 | 0 | 1 | | 329240 | 3 | 17 |
| -1.095930+7 | -1.095930+7 | 0 | 0 | 1 | | 329240 | 3 | 17 |
| 1.800000+8 | 1.800000+8 | 0 | 0 | 1 | | 819240 | 3 | 18 |
| 1.800000+8 | 1.800000+8 | 0 | 0 | 1 | | 1539240 | 3 | 18 |
| 1.615427+7 | 0.000000+0 | 1.650000+7 | 1.051617-7 | 1.700000+7 | 3.818450-4 | 9240 | 3 | 37 |
| 1.615387+7 | 0.000000+0 | 1.650000+7 | 8.474438-8 | 1.700000+7 | 2.994790-4 | 9240 | 3 | 37 |
| 4.267932+4 | 0.000000+0 | 4.500000+4 | 9.896425-2 | 5.000000+4 | 1.573151-1 | 9240 | 3 | 51 |
| 4.267932+4 | 0.000000+0 | 4.500000+4 | 8.618800-2 | 5.000000+4 | 1.381900-1 | 9240 | 3 | 51 |
| 9.901603+4 | 0.000000+0 | 1.000000+5 | 2.575827-3 | 1.200000+5 | 4.041081-2 | 9240 | 3 | 52 |
| 9.901603+4 | 0.000000+0 | 1.000000+5 | 2.374600-3 | 1.200000+5 | 3.802200-2 | 9240 | 3 | 52 |
| 1.343646+5 | 0.000000+0 | 1.400000+5 | 5.328146-3 | 1.464152+5 | 1.114856-2 | 9240 | 3 | 53 |
| 1.343646+5 | 0.000000+0 | 1.400000+5 | 5.131689-3 | 1.464152+5 | 1.081951-2 | 9240 | 3 | 53 |
| 1.464152+5 | 0.000000+0 | 1.600000+5 | 4.278952-2 | 1.800000+5 | 8.360855-2 | 9240 | 3 | 54 |
| 1.464152+5 | 0.000000+0 | 1.600000+5 | 4.221600-2 | 1.800000+5 | 8.414698-2 | 9240 | 3 | 54 |
| 1.948186+5 | 0.000000+0 | 2.000000+5 | 3.544345-2 | 2.200000+5 | 9.038837-2 | 9240 | 3 | 55 |
| 1.948186+5 | 0.000000+0 | 2.000000+5 | 3.614500-2 | 2.200000+5 | 9.293400-2 | 9240 | 3 | 55 |
| 2.232380+5 | 0.000000+0 | 2.272548+5 | 1.131306-2 | 2.400000+5 | 4.192452-2 | 9240 | 3 | 56 |
| 2.232380+5 | 0.000000+0 | 2.272548+5 | 1.166036-2 | 2.400000+5 | 4.334412-2 | 9240 | 3 | 56 |
| 2.272548+5 | 0.000000+0 | 2.400000+5 | 1.314223-2 | 2.500000+5 | 2.255282-2 | 9240 | 3 | 57 |
| 2.272548+5 | 0.000000+0 | 2.400000+5 | 1.358724-2 | 2.500000+5 | 2.336583-2 | 9240 | 3 | 57 |
| 2.938346+5 | 0.000000+0 | 3.000000+5 | 2.225977-2 | 3.030734+5 | 2.731991-2 | 9240 | 3 | 58 |
| 2.938346+5 | 0.000000+0 | 3.000000+5 | 2.314400-2 | 3.030734+5 | 2.840629-2 | 9240 | 3 | 58 |
| 3.030734+5 | 0.000000+0 | 3.090987+5 | 2.545629-3 | 3.200000+5 | 5.857252-3 | 9240 | 3 | 59 |
| 3.030734+5 | 0.000000+0 | 3.090987+5 | 2.645680-3 | 3.200000+5 | 6.082700-3 | 9240 | 3 | 59 |
| 3.090987+5 | 0.000000+0 | 3.200000+5 | 8.739802-3 | 3.400000+5 | 2.074665-2 | 9240 | 3 | 60 |
| 3.090987+5 | 0.000000+0 | 3.200000+5 | 9.076200-3 | 3.400000+5 | 2.147720-2 | 9240 | 3 | 60 |
| 3.742726+5 | 0.000000+0 | 3.800000+5 | 7.343651-4 | 4.000000+5 | 3.488479-3 | 9240 | 3 | 61 |
| 3.742726+5 | 0.000000+0 | 3.800000+5 | 7.535392-4 | 4.000000+5 | 3.559900-3 | 9240 | 3 | 61 |

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| 4.318143+5 | 0.000000+0 | 4.500000+5 | 1.715085-5 | 5.000000+5 | 6.709235-59240 | 3 | 62 | | |
| 4.318143+5 | 0.000000+0 | 4.500000+5 | 1.723309-5 | 5.000000+5 | 6.669588-59240 | 3 | 62 | | |
| ----- | | | | | | | | | |
| 5.523207+5 | 0.000000+0 | 6.000000+5 | 9.121577-5 | 6.527198+5 | 1.637260-49240 | 3 | 63 | | |
| 5.523207+5 | 0.000000+0 | 6.000000+5 | 9.025440-5 | 6.527198+5 | 1.616393-49240 | 3 | 63 | | |
| ----- | | | | | | | | | |
| 6.527198+5 | 0.000000+0 | 7.000000+5 | 2.679465-4 | 7.732489+5 | 7.882143-49240 | 3 | 64 | | |
| 6.527198+5 | 0.000000+0 | 7.000000+5 | 2.640802-4 | 7.732489+5 | 7.758656-49240 | 3 | 64 | | |
| ----- | | | | | | | | | |
| 7.732489+5 | 0.000000+0 | 8.000000+5 | 1.093671-4 | 9.000000+5 | 6.766953-49240 | 3 | 65 | | |
| 7.732489+5 | 0.000000+0 | 8.000000+5 | 1.076151-4 | 9.000000+5 | 6.655269-49240 | 3 | 65 | | |
| ----- | | | | | | | | | |
| 9.037975+5 | 0.000000+0 | 1.000000+6 | 4.376700-4 | 1.066983+6 | 7.479008-49240 | 3 | 66 | | |
| 9.037975+5 | 0.000000+0 | 1.000000+6 | 4.306732-4 | 1.066983+6 | 7.369347-49240 | 3 | 66 | | |
| ----- | | | | | | | | | |
| 1.066983+6 | 0.000000+0 | 1.174937+6 | 8.839994-4 | 1.200000+6 | 1.059683-39240 | 3 | 67 | | |
| 1.066983+6 | 0.000000+0 | 1.174937+6 | 8.728328-4 | 1.200000+6 | 1.046763-39240 | 3 | 67 | | |
| ----- | | | | | | | | | |
| 1.174937+6 | 0.000000+0 | 1.200000+6 | 1.930001-4 | 1.255274+6 | 5.698038-49240 | 3 | 68 | | |
| 1.174937+6 | 0.000000+0 | 1.200000+6 | 1.906468-4 | 1.255274+6 | 5.636577-49240 | 3 | 68 | | |
| ----- | | | | | | | | | |
| 1.255274+6 | 0.000000+0 | 1.400000+6 | 1.711642-2 | 1.446076+6 | 2.011775-29240 | 3 | 69 | | |
| 1.255274+6 | 0.000000+0 | 1.400000+6 | 1.692496-2 | 1.446076+6 | 1.989316-29240 | 3 | 69 | | |
| ----- | | | | | | | | | |
| 1.446076+6 | 0.000000+0 | 1.500000+6 | 8.210142-4 | 1.596709+6 | 2.107060-39240 | 3 | 70 | | |
| 1.446076+6 | 0.000000+0 | 1.500000+6 | 8.119760-4 | 1.596709+6 | 2.084306-39240 | 3 | 70 | | |
| ----- | | | | | | | | | |
| 1.596709+6 | 0.000000+0 | 1.600000+6 | 3.078136-5 | 1.757384+6 | 1.231788-39240 | 3 | 71 | | |
| 1.596709+6 | 0.000000+0 | 1.600000+6 | 3.044924-5 | 1.757384+6 | 1.218887-39240 | 3 | 71 | | |
| ----- | | | | | | | | | |
| 1.757384+6 | 0.000000+0 | 1.800000+6 | 4.734083-4 | 1.857806+6 | 9.982595-49240 | 3 | 72 | | |
| 1.757384+6 | 0.000000+0 | 1.800000+6 | 4.685027-4 | 1.857806+6 | 9.880444-49240 | 3 | 72 | | |
| ----- | | | | | | | | | |
| 1.857806+6 | 0.000000+0 | 1.958228+6 | 7.914640-4 | 2.000000+6 | 1.000294-39240 | 3 | 73 | | |
| 1.857806+6 | 0.000000+0 | 1.958228+6 | 7.835112-4 | 2.000000+6 | 9.903130-49240 | 3 | 73 | | |
| ----- | | | | | | | | | |
| 1.958228+6 | 0.000000+0 | 2.000000+6 | 4.182199-4 | 2.159072+6 | 1.755398-39240 | 3 | 74 | | |
| 1.958228+6 | 0.000000+0 | 2.000000+6 | 4.140471-4 | 2.159072+6 | 1.742684-39240 | 3 | 74 | | |
| ----- | | | | | | | | | |
| 2.159072+6 | 0.000000+0 | 2.309705+6 | 2.278092-3 | 2.400084+6 | 3.204483-39240 | 3 | 75 | | |
| 2.159072+6 | 0.000000+0 | 2.309705+6 | 2.270274-3 | 2.400084+6 | 3.200884-39240 | 3 | 75 | | |
| ----- | | | | | | | | | |
| 2.309705+6 | 0.000000+0 | 2.400084+6 | 1.876465-3 | 2.500000+6 | 3.296627-39240 | 3 | 76 | | |
| 2.309705+6 | 0.000000+0 | 2.400084+6 | 1.874357-3 | 2.500000+6 | 3.301327-39240 | 3 | 76 | | |
| ----- | | | | | | | | | |
| 2.400084+6 | 0.000000+0 | 2.500000+6 | 1.487389-4 | 2.503318+6 | 1.533397-49240 | 3 | 77 | | |
| 2.400084+6 | 0.000000+0 | 2.500000+6 | 1.489507-4 | 2.503318+6 | 1.535757-49240 | 3 | 77 | | |
| ----- | | | | | | | | | |
| 2.503318+6 | 0.000000+0 | 2.952405+6 | 1.003608-2 | 3.000000+6 | 1.034094-29240 | 3 | 78 | | |
| 2.503318+6 | 0.000000+0 | 2.952405+6 | 1.010698-2 | 3.000000+6 | 1.041341-29240 | 3 | 78 | | |
| ----- | | | | | | | | | |
| 2.952405+6 | 0.000000+0 | 3.000000+6 | 1.350909-3 | 3.202456+6 | 5.838520-39240 | 3 | 79 | | |
| 2.952405+6 | 0.000000+0 | 3.000000+6 | 1.360376-3 | 3.202456+6 | 5.885106-39240 | 3 | 79 | | |
| ----- | | | | | | | | | |
| 3.202456+6 | 0.000000+0 | 3.402295+6 | 4.570861-3 | 3.500000+6 | 5.595721-39240 | 3 | 80 | | |
| 3.202456+6 | 0.000000+0 | 3.402295+6 | 4.611640-3 | 3.500000+6 | 5.648280-39240 | 3 | 80 | | |
| ----- | | | | | | | | | |
| 3.402295+6 | 0.000000+0 | 3.500000+6 | 1.646956-3 | 3.552928+6 | 2.432630-39240 | 3 | 81 | | |
| 3.402295+6 | 0.000000+0 | 3.500000+6 | 1.662425-3 | 3.552928+6 | 2.455744-39240 | 3 | 81 | | |
| ----- | | | | | | | | | |
| 3.552928+6 | 0.000000+0 | 3.652346+6 | 7.133156-4 | 3.752768+6 | 1.279391-39240 | 3 | 82 | | |
| 3.552928+6 | 0.000000+0 | 3.652346+6 | 7.203417-4 | 3.752768+6 | 1.293028-39240 | 3 | 82 | | |
| ----- | | | | | | | | | |
| 3.652346+6 | 0.000000+0 | 3.752768+6 | 8.359367-4 | 3.853190+6 | 1.440079-39240 | 3 | 83 | | |
| 3.652346+6 | 0.000000+0 | 3.752768+6 | 8.448473-4 | 3.853190+6 | 1.456610-39240 | 3 | 83 | | |
| ----- | | | | | | | | | |
| 3.752768+6 | 0.000000+0 | 3.853190+6 | 8.651377-4 | 3.925494+6 | 1.283678-39240 | 3 | 84 | | |
| 3.752768+6 | 0.000000+0 | 3.853190+6 | 8.750694-4 | 3.925494+6 | 1.299176-39240 | 3 | 84 | | |
| ----- | | | | | | | | | |
| 3.853190+6 | 0.000000+0 | 3.925494+6 | 4.188816-4 | 4.000000+6 | 6.845223-49240 | 3 | 85 | | |
| 3.853190+6 | 0.000000+0 | 3.925494+6 | 4.239386-4 | 4.000000+6 | 6.932080-49240 | 3 | 85 | | |
| ----- | | | | | | | | | |
| 3.925494+6 | 0.000000+0 | 4.000000+6 | 3.598984-4 | 4.500000+6 | 1.950303-39240 | 3 | 86 | | |
| 3.925494+6 | 0.000000+0 | 4.000000+6 | 3.644647-4 | 4.500000+6 | 1.977604-39240 | 3 | 86 | | |

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3.742726+5 0.000000+0 3.800000+5 4.859082-4 4.000000+5 9.941239-39240 3 91
3.742726+5 0.000000+0 3.800000+5 4.985948-4 4.000000+5 1.014477-29240 3 91
-----
5.930800+6 5.930800+6 0 0 1 969240 3102
5.930800+6 5.930800+6 0 0 1 1539240 3102
-----
92-U -240
*****
1.078221+7 0.000000+0 1.080000+7 1.64512-42 1.100000+7 1.622900-49243 3 17
1.078221+7 0.000000+0 1.080000+7 1.64581-42 1.100000+7 1.622900-49243 3 17
-----
4.200000+6 9.727297-4 4.300000+6 9.878624-4 4.400000+6 1.002633-39243 3 57
4.200000+6 9.727297-4 4.300000+6 9.878623-4 4.400000+6 1.002633-39243 3 57
-----
1.133858-2 3.681401-3 9.783953-4 2.340624-4 5.143415-5 9.969714-69243 4 2
1.133858-2 3.681401-3 9.783954-4 2.340624-4 5.143415-5 9.969714-69243 4 2
-----
0.000000+0 6.217255-3 0.000000+0 9.988066-4 0.000000+0 5.987687-69243 4 55
0.000000+0 6.217255-3 0.000000+0 9.988065-4 0.000000+0 5.987687-69243 4 55
-----
0.000000+0-9.857893-7 0.000000+0-2.835380-8 0.000000+0-1.350161-99243 4 57
0.000000+0-9.857892-7 0.000000+0-2.835380-8 0.000000+0-1.350161-99243 4 57
-----
0.000000+0 9.794074-7 0.000000+0 2.172264-8 0.000000+0 2.660714-99243 4 63
0.000000+0 9.794075-7 0.000000+0 2.172264-8 0.000000+0 2.660714-99243 4 63
-----
0.000000+0 4.563329-5 0.000000+0 9.566922-7 0.000000+0-2.855296-69243 4 70
0.000000+0 4.563329-5 0.000000+0 9.566923-7 0.000000+0-2.855296-69243 4 70
-----
6.692000-4 3.344000-3 9.712001-7 2.593000-6-7.279000-8-3.602000-89243 4 76
6.692000-4 3.344000-3 9.712000-7 2.593000-6-7.279000-8-3.602000-89243 4 76
-----
7.095188+5 1.098172-6 9.027065-3 7.344141+5 9.899715-7 4.951523-29243 6 91
7.095188+5 1.098172-6 9.027065-3 7.344141+5 9.899714-7 4.951523-29243 6 91
-----
92-U -241
*****
9.866999-4-1.066000-3-4.006000-7 0.000000+0 9246 4 51
9.867000-4-1.066000-3-4.006000-7 0.000000+0 9246 4 51
-----
-2.123213-2-5.575145-2 4.503431-2-4.007026-2 8.664596-4 9.875596-49246 4 63
-2.123213-2-5.575145-2 4.503431-2-4.007026-2 8.664596-4 9.875595-49246 4 63
-----
-5.501023-6-5.653619-6-9.676723-7-1.311852-7-1.349319-8-1.592145-99246 4 67
-5.501023-6-5.653619-6-9.676724-7-1.311852-7-1.349319-8-1.592145-99246 4 67
-----
-1.130429-2-9.546876-3-9.897758-4 1.520279-2 1.188212-2 4.399529-39246 4 76
-1.130429-2-9.546876-3-9.897757-4 1.520279-2 1.188212-2 4.399529-39246 4 76
-----
5.477082+4 9.578685-7 7.681016-5 6.472916+4 1.034695-6 7.958543-59246 6 91
5.477082+4 9.578684-7 7.681016-5 6.472916+4 1.034695-6 7.958543-59246 6 91
-----
93-Np-234 Evaluation Only in VII.1
*****
93-Np-235
*****
0.000000+0 0.000000+0 0 0 1 179340 1452
0.000000+0 0.000000+0 0 0 1 49340 1452
-----
0.000000+0 0.000000+0 0 0 1 179340 1455
0.000000+0 0.000000+0 0 0 1 49340 1455
-----
1.000000-5 2.632300+0 2.000000+7 5.430500+0 9340 1456
1.000000-5 2.659000+0 2.000000+7 5.259000+0 9340 1456
-----
1.000000-5 2.000000-1 0 0 0 09340 2151
1.000000-5 4.000000-1 0 0 0 09340 2151
-----
0.000000+0 0.000000+0 0 0 1 1049340 3 1
0.000000+0 0.000000+0 0 0 1 1239340 3 1
-----
0.000000+0 0.000000+0 0 0 1 989340 3 2
0.000000+0 0.000000+0 0 0 1 1169340 3 2
-----

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| | | | | | | |
|------------------------|---|---|---|-------------|---------------|--|
| 72 | 2 | | | | 9340 3 4 | |
| 72 | 3 | | | | 9340 3 4 | |
| -6.983120+6-6.983120+6 | 0 | 0 | 1 | 279340 3 16 | | |
| -6.983400+6-6.983400+6 | 0 | 0 | 1 | 259340 3 16 | | |
| -1.304750+7-1.304750+7 | 0 | 0 | 1 | 159340 3 17 | | |
| -1.310470+7-1.310470+7 | 0 | 0 | 1 | 149340 3 17 | | |
| 1.937000+8 1.937000+8 | 0 | 0 | 1 | 989340 3 18 | | |
| 2.000000+8 2.000000+8 | 0 | 0 | 1 | 519340 3 18 | | |
| | | | | 9340 3 19 | Only in VII.1 | |
| | | | | 9340 3 20 | Only in VII.1 | |
| | | | | 9340 3 21 | Only in VII.1 | |
| | | | | 9340 3 38 | Only in VII.1 | |
| 0.000000+0-3.423000+4 | 0 | 0 | 1 | 719340 3 51 | | |
| 0.000000+0-3.423000+4 | 0 | 0 | 1 | 499340 3 51 | | |
| 0.000000+0-4.910000+4 | 0 | 0 | 1 | 709340 3 52 | | |
| 0.000000+0-4.910000+4 | 0 | 0 | 1 | 469340 3 52 | | |
| 0.000000+0-7.910000+4 | 0 | 0 | 1 | 679340 3 53 | | |
| 0.000000+0-7.910000+4 | 0 | 0 | 1 | 469340 3 53 | | |
| 0.000000+0-9.160000+4 | 0 | 0 | 1 | 669340 3 54 | | |
| 0.000000+0-9.160000+4 | 0 | 0 | 1 | 429340 3 54 | | |
| 0.000000+0-1.330000+5 | 0 | 0 | 1 | 639340 3 55 | | |
| 0.000000+0-1.330000+5 | 0 | 0 | 1 | 429340 3 55 | | |
| 0.000000+0-1.468000+5 | 0 | 0 | 1 | 619340 3 56 | | |
| 0.000000+0-1.468000+5 | 0 | 0 | 1 | 399340 3 56 | | |
| 0.000000+0-2.000000+5 | 0 | 0 | 1 | 589340 3 57 | | |
| 0.000000+0-2.000000+5 | 0 | 0 | 1 | 399340 3 57 | | |
| | | | | 9340 3 58 | Only in VII.0 | |
| | | | | 9340 3 59 | Only in VII.0 | |
| | | | | 9340 3 60 | Only in VII.0 | |
| | | | | 9340 3 61 | Only in VII.0 | |
| | | | | 9340 3 62 | Only in VII.0 | |
| | | | | 9340 3 63 | Only in VII.0 | |
| | | | | 9340 3 64 | Only in VII.0 | |
| | | | | 9340 3 65 | Only in VII.0 | |
| | | | | 9340 3 66 | Only in VII.0 | |
| 0.000000+0-1.104720+5 | 0 | 0 | 1 | 659340 3 91 | | |
| 0.000000+0-7.500000+5 | 0 | 0 | 1 | 429340 3 91 | | |
| 5.736680+6 5.736680+6 | 0 | 0 | 1 | 989340 3102 | | |
| 5.739430+6 5.739430+6 | 0 | 0 | 1 | 789340 3102 | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 959340 4 2 | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 169340 4 2 | | |
| | | | | 9340 4 16 | Only in VII.0 | |
| | | | | 9340 4 17 | Only in VII.0 | |
| | | | | 9340 4 51 | Only in VII.0 | |
| | | | | 9340 4 52 | Only in VII.0 | |
| | | | | 9340 4 53 | Only in VII.0 | |
| | | | | 9340 4 54 | Only in VII.0 | |
| | | | | 9340 4 55 | Only in VII.0 | |
| | | | | 9340 4 56 | Only in VII.0 | |
| | | | | 9340 4 57 | Only in VII.0 | |
| | | | | 9340 4 58 | Only in VII.0 | |
| | | | | 9340 4 59 | Only in VII.0 | |
| | | | | 9340 4 60 | Only in VII.0 | |
| | | | | 9340 4 61 | Only in VII.0 | |
| | | | | 9340 4 62 | Only in VII.0 | |
| | | | | 9340 4 63 | Only in VII.0 | |
| | | | | 9340 4 64 | Only in VII.0 | |
| | | | | 9340 4 65 | Only in VII.0 | |
| | | | | 9340 4 66 | Only in VII.0 | |
| | | | | 9340 4 91 | Only in VII.0 | |
| | | | | 9340 5 16 | Only in VII.0 | |

| | | | | | | |
|------------------------|------------|---|---|---|-------------|---------------|
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 9340 5 17 | Only in VII.0 |
| -2.000000+8 | 0.000000+0 | 0 | 7 | 1 | 29340 5 18 | |
| ----- | | | | | | |
| | | | | | 9340 5 91 | Only in VII.0 |
| | | | | | 9340 6 16 | Only in VII.1 |
| | | | | | 9340 6 17 | Only in VII.1 |
| | | | | | 9340 6 51 | Only in VII.1 |
| | | | | | 9340 6 52 | Only in VII.1 |
| | | | | | 9340 6 53 | Only in VII.1 |
| | | | | | 9340 6 54 | Only in VII.1 |
| | | | | | 9340 6 55 | Only in VII.1 |
| | | | | | 9340 6 56 | Only in VII.1 |
| | | | | | 9340 6 57 | Only in VII.1 |
| | | | | | 9340 6 91 | Only in VII.1 |
| | | | | | 9340 6102 | Only in VII.1 |
| 93-Np-236 | | | | | | |
| ***** | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 179343 1452 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49343 1452 | |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 179343 1455 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49343 1455 | |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 29343 1456 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49343 1456 | |
| ----- | | | | | | |
| 9.323600+4 | 1.000000+0 | 0 | 1 | 2 | 09343 2151 | |
| 9.323600+4 | 1.000000+0 | 0 | 0 | 1 | 09343 2151 | |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 949343 3 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 829343 3 1 | |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 909343 3 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 809343 3 2 | |
| ----- | | | | | | |
| 0.000000+0-5.600000+4 | | 0 | 0 | 1 | 709343 3 4 | |
| 0.000000+0-5.999990+4 | | 0 | 0 | 1 | 349343 3 4 | |
| ----- | | | | | | |
| -5.736680+6-5.736680+6 | | 0 | 0 | 1 | 309343 3 16 | |
| -5.729790+6-5.729790+6 | | 0 | 0 | 1 | 269343 3 16 | |
| ----- | | | | | | |
| -1.271980+7-1.271980+7 | | 0 | 0 | 1 | 159343 3 17 | |
| -1.270900+7-1.270900+7 | | 0 | 0 | 1 | 149343 3 17 | |
| ----- | | | | | | |
| 1.950000+8 1.950000+8 | | 0 | 0 | 2 | 909343 3 18 | |
| 1.999990+8 1.999990+8 | | 0 | 0 | 2 | 439343 3 18 | |
| ----- | | | | | | |
| | | | | | 9343 3 19 | Only in VII.1 |
| | | | | | 9343 3 20 | Only in VII.1 |
| | | | | | 9343 3 21 | Only in VII.1 |
| | | | | | 9343 3 37 | Only in VII.1 |
| | | | | | 9343 3 38 | Only in VII.1 |
| 0.000000+0-5.600000+4 | | 0 | 0 | 1 | 699343 3 51 | |
| 0.000000+0-5.999990+4 | | 0 | 0 | 1 | 349343 3 51 | |
| ----- | | | | | | |
| 0.000000+0-6.000000+4 | | 0 | 0 | 1 | 689343 3 52 | |
| 0.000000+0-2.310000+5 | | 0 | 0 | 1 | 299343 3 52 | |
| ----- | | | | | | |
| 0.000000+0-7.600000+4 | | 0 | 0 | 1 | 669343 3 53 | |
| 0.000000+0-2.730000+5 | | 0 | 0 | 1 | 279343 3 53 | |
| ----- | | | | | | |
| 0.000000+0-1.000000+5 | | 0 | 0 | 1 | 649343 3 54 | |
| 0.000000+0-3.240000+5 | | 0 | 0 | 1 | 259343 3 54 | |
| ----- | | | | | | |
| | | | | | 9343 3 55 | Only in VII.1 |
| | | | | | 9343 3 56 | Only in VII.1 |
| 0.000000+0-1.106850+5 | | 0 | 0 | 1 | 649343 3 91 | |
| 0.000000+0-3.699990+5 | | 0 | 0 | 1 | 249343 3 91 | |
| ----- | | | | | | |
| 6.577350+6 6.577350+6 | | 0 | 0 | 2 | 909343 3102 | |
| 6.573350+6 6.573350+6 | | 0 | 0 | 2 | 609343 3102 | |
| ----- | | | | | | |
| 0.000000+0 0.000000+0 | | 0 | 0 | 1 | 949343 4 2 | |
| 0.000000+0 0.000000+0 | | 0 | 0 | 1 | 519343 4 2 | |

| | | | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-------------|------|----------|
| | | | | | | 9343 4 16 | Only | in VII.0 |
| | | | | | | 9343 4 17 | Only | in VII.0 |
| 0.000000+0 | 2.340190+2 | 1 | 1 | 0 | | 09343 4 18 | | |
| 0.000000+0 | 2.340190+2 | 0 | 1 | 0 | | 09343 4 18 | | |
| | | | | | | 9343 4 51 | Only | in VII.0 |
| | | | | | | 9343 4 52 | Only | in VII.0 |
| | | | | | | 9343 4 53 | Only | in VII.0 |
| | | | | | | 9343 4 54 | Only | in VII.0 |
| | | | | | | 9343 4 91 | Only | in VII.0 |
| | | | | | | 9343 5 16 | Only | in VII.0 |
| | | | | | | 9343 5 17 | Only | in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | | 29343 5 18 | | |
| -2.000000+7 | 0.000000+0 | 0 | 7 | 1 | | 29343 5 18 | | |
| | | | | | | 9343 5 91 | Only | in VII.0 |
| | | | | | | 9343 6 16 | Only | in VII.1 |
| | | | | | | 9343 6 17 | Only | in VII.1 |
| | | | | | | 9343 6 37 | Only | in VII.1 |
| | | | | | | 9343 6 51 | Only | in VII.1 |
| | | | | | | 9343 6 52 | Only | in VII.1 |
| | | | | | | 9343 6 53 | Only | in VII.1 |
| | | | | | | 9343 6 54 | Only | in VII.1 |
| | | | | | | 9343 6 55 | Only | in VII.1 |
| | | | | | | 9343 6 56 | Only | in VII.1 |
| | | | | | | 9343 6 91 | Only | in VII.1 |
| | | | | | | 9343 6102 | Only | in VII.1 |
| 93-Np-237 | | | | | | | | |
| ***** | | | | | | | | |
| 1.325200-2 | 3.160300-2 | 1.167900-1 | 3.006500-1 | 8.666900-1 | 2.760000+0 | 9346 1455 | | |
| 1.248610-2 | 3.077587-2 | 1.065464-1 | 3.139911-1 | 1.334211+0 | 1.050869+1 | 9346 1455 | | |
| | | | | | | 9346 2151 | | |
| -3.495500+0 | 3.000000+0 | 4.548000-2 | 5.480000-3 | 4.000000-2 | 0.000000+0 | 9346 2151 | | |
| -3.490000+0 | 3.000000+0 | 4.217590-2 | 2.175900-3 | 4.000000-2 | 0.000000+0 | 9346 2151 | | |
| | | | | | | 9346 3 1 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 3469346 3 1 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 3419346 3 1 | | |
| | | | | | | 9346 3 2 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 3469346 3 2 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 3419346 3 2 | | |
| | | | | | | 9346 3 3 | | |
| 6.600000+6 | 3.155373+0 | 6.608000+6 | 3.155472+0 | 6.700000+6 | 3.158127+0 | 9346 3 3 | | |
| 6.600000+6 | 3.155373+0 | 6.601049+6 | 3.155386+0 | 6.678377+6 | 3.162286+0 | 9346 3 3 | | |
| | | | | | | 9346 3 16 | | |
| -6.580000+6 | -6.580000+6 | 0 | 0 | 1 | | 239346 3 16 | | |
| -6.573080+6 | -6.573080+6 | 0 | 0 | 1 | | 619346 3 16 | | |
| | | | | | | 9346 3 17 | | |
| -1.232000+7 | -1.232000+7 | 0 | 0 | 1 | | 129346 3 17 | | |
| -1.231370+7 | -1.231370+7 | 0 | 0 | 1 | | 329346 3 17 | | |
| | | | | | | 9346 5455 | | |
| 1.000000-5 | 3.998307-2 | 2.000000+7 | 3.998307-2 | | | 9346 5455 | | |
| 1.000000-5 | 3.184407-2 | 2.000000+7 | 3.184407-2 | | | 9346 5455 | | |
| 93-Np-238 | | | | | | | | |
| ***** | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 179349 1452 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 49349 1452 | | |
| | | | | | | 9349 1455 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 179349 1455 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 49349 1455 | | |
| | | | | | | 9349 1456 | | |
| 1.000000-5 | 2.470000+0 | 2.000000+7 | 5.384000+0 | | | 9349 1456 | | |
| 1.000000-5 | 2.500000+0 | 2.000000+7 | 5.460000+0 | | | 9349 1456 | | |
| | | | | | | 9349 1458 | Only | in VII.1 |
| 9.323800+4 | 1.000000+0 | 0 | 0 | 2 | | 09349 2151 | | |
| 9.323800+4 | 1.000000+0 | 0 | 0 | 1 | | 09349 2151 | | |
| | | | | | | 9349 3 1 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | | 1289349 3 1 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 1059349 3 1 | | |
| | | | | | | 9349 3 2 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | | 1229349 3 2 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 1059349 3 2 | | |

| | | | | | | | |
|------------------------|---|---|---|---------|---|----|---------------|
| 0.000000+0-2.642700+4 | 0 | 0 | 1 | 1039349 | 3 | 4 | |
| 0.000000+0-2.643000+4 | 0 | 0 | 1 | 619349 | 3 | 4 | |
| ----- | | | | | | | |
| -5.488320+6-5.488320+6 | 0 | 0 | 1 | 309349 | 3 | 16 | |
| -6.568390+6-6.568390+6 | 0 | 0 | 1 | 279349 | 3 | 16 | |
| ----- | | | | | | | |
| -1.206570+7-1.206570+7 | 0 | 0 | 1 | 179349 | 3 | 17 | |
| -1.231100+7-1.231100+7 | 0 | 0 | 1 | 159349 | 3 | 17 | |
| ----- | | | | | | | |
| 1.995530+8 1.995530+8 | 0 | 0 | 2 | 1229349 | 3 | 18 | |
| 1.999990+8 1.999990+8 | 0 | 0 | 1 | 409349 | 3 | 18 | |
| ----- | | | | | | | |
| | | | | 9349 | 3 | 19 | Only in VII.1 |
| | | | | 9349 | 3 | 20 | Only in VII.1 |
| | | | | 9349 | 3 | 21 | Only in VII.1 |
| | | | | 9349 | 3 | 37 | Only in VII.1 |
| | | | | 9349 | 3 | 38 | Only in VII.1 |
| 0.000000+0-2.642700+4 | 0 | 0 | 1 | 1009349 | 3 | 51 | |
| 0.000000+0-2.643000+4 | 0 | 0 | 1 | 619349 | 3 | 51 | |
| ----- | | | | | | | |
| 0.000000+0-6.233000+4 | 0 | 0 | 1 | 979349 | 3 | 52 | |
| 0.000000+0-6.221990+4 | 0 | 0 | 1 | 589349 | 3 | 52 | |
| ----- | | | | | | | |
| 0.000000+0-8.667400+4 | 0 | 0 | 1 | 959349 | 3 | 53 | |
| 0.000000+0-8.664990+4 | 0 | 0 | 1 | 569349 | 3 | 53 | |
| ----- | | | | | | | |
| 0.000000+0-1.061550+5 | 0 | 0 | 1 | 939349 | 3 | 54 | |
| 0.000000+0-1.062600+5 | 0 | 0 | 1 | 549349 | 3 | 54 | |
| ----- | | | | | | | |
| 0.000000+0-1.216450+5 | 0 | 0 | 1 | 919349 | 3 | 55 | |
| 0.000000+0-1.217600+5 | 0 | 0 | 1 | 539349 | 3 | 55 | |
| ----- | | | | | | | |
| 0.000000+0-1.360450+5 | 0 | 0 | 1 | 909349 | 3 | 56 | |
| 0.000000+0-1.360100+5 | 0 | 0 | 1 | 529349 | 3 | 56 | |
| ----- | | | | | | | |
| 0.000000+0-1.616850+5 | 0 | 0 | 1 | 889349 | 3 | 57 | |
| 0.000000+0-1.657700+5 | 0 | 0 | 1 | 509349 | 3 | 57 | |
| ----- | | | | | | | |
| 0.000000+0-1.655320+5 | 0 | 0 | 1 | 879349 | 3 | 58 | |
| 0.000000+0-1.791500+5 | 0 | 0 | 1 | 499349 | 3 | 58 | |
| ----- | | | | | | | |
| 0.000000+0-1.791540+5 | 0 | 0 | 1 | 859349 | 3 | 59 | |
| 0.000000+0-1.828600+5 | 0 | 0 | 1 | 489349 | 3 | 59 | |
| ----- | | | | | | | |
| 0.000000+0-1.828770+5 | 0 | 0 | 1 | 849349 | 3 | 60 | |
| 0.000000+0-2.154800+5 | 0 | 0 | 1 | 469349 | 3 | 60 | |
| ----- | | | | | | | |
| 0.000000+0-2.155220+5 | 0 | 0 | 1 | 829349 | 3 | 61 | |
| 0.000000+0-2.212000+5 | 0 | 0 | 1 | 459349 | 3 | 61 | |
| ----- | | | | | | | |
| 0.000000+0-2.179490+5 | 0 | 0 | 1 | 819349 | 3 | 62 | |
| 0.000000+0-2.328000+5 | 0 | 0 | 1 | 449349 | 3 | 62 | |
| ----- | | | | | | | |
| 0.000000+0-2.187000+5 | 0 | 0 | 1 | 809349 | 3 | 63 | |
| 0.000000+0-2.587000+5 | 0 | 0 | 1 | 429349 | 3 | 63 | |
| ----- | | | | | | | |
| 0.000000+0-2.328280+5 | 0 | 0 | 1 | 799349 | 3 | 64 | |
| 0.000000+0-2.755800+5 | 0 | 0 | 1 | 419349 | 3 | 64 | |
| ----- | | | | | | | |
| 0.000000+0-2.439590+5 | 0 | 0 | 1 | 789349 | 3 | 65 | |
| 0.000000+0-2.860000+5 | 0 | 0 | 1 | 409349 | 3 | 65 | |
| ----- | | | | | | | |
| 0.000000+0-2.464000+5 | 0 | 0 | 1 | 779349 | 3 | 66 | |
| 0.000000+0-2.983000+5 | 0 | 0 | 1 | 399349 | 3 | 66 | |
| ----- | | | | | | | |
| 0.000000+0-2.503300+5 | 0 | 0 | 1 | 759349 | 3 | 67 | |
| 0.000000+0-3.009100+5 | 0 | 0 | 1 | 379349 | 3 | 67 | |
| ----- | | | | | | | |
| 0.000000+0-2.503900+5 | 0 | 0 | 1 | 749349 | 3 | 68 | |
| 0.000000+0-3.286000+5 | 0 | 0 | 1 | 369349 | 3 | 68 | |
| ----- | | | | | | | |
| 0.000000+0-2.588530+5 | 0 | 0 | 1 | 739349 | 3 | 69 | |
| 0.000000+0-3.325000+5 | 0 | 0 | 1 | 359349 | 3 | 69 | |
| ----- | | | | | | | |
| 0.000000+0-2.755190+5 | 0 | 0 | 1 | 729349 | 3 | 70 | |

| | | | | | | | | |
|-----------------------|---|---|---|---------|------|----|------|----------|
| 0.000000+0-3.423800+5 | 0 | 0 | 1 | 349349 | 3 | 70 | | |
| ----- | | | | | | | | |
| 0.000000+0-2.776410+5 | 0 | 0 | 1 | 719349 | 3 | 71 | | |
| 0.000000+0-3.501000+5 | 0 | 0 | 1 | 339349 | 3 | 71 | | |
| ----- | | | | | | | | |
| 0.000000+0-2.858000+5 | 0 | 0 | 1 | 709349 | 3 | 72 | | |
| 0.000000+0-3.684090+5 | 0 | 0 | 1 | 329349 | 3 | 72 | | |
| ----- | | | | | | | | |
| 0.000000+0-2.970300+5 | 0 | 0 | 1 | 699349 | 3 | 73 | | |
| 0.000000+0-3.740990+5 | 0 | 0 | 1 | 319349 | 3 | 73 | | |
| ----- | | | | | | | | |
| 0.000000+0-2.983680+5 | 0 | 0 | 1 | 689349 | 3 | 74 | | |
| 0.000000+0-4.084990+5 | 0 | 0 | 1 | 309349 | 3 | 74 | | |
| ----- | | | | | | | | |
| 0.000000+0-2.992300+5 | 0 | 0 | 1 | 669349 | 3 | 75 | | |
| 0.000000+0-4.312990+5 | 0 | 0 | 1 | 299349 | 3 | 75 | | |
| ----- | | | | | | | | |
| 0.000000+0-2.997880+5 | 0 | 0 | 1 | 659349 | 3 | 76 | | |
| 0.000000+0-4.403990+5 | 0 | 0 | 1 | 289349 | 3 | 76 | | |
| ----- | | | | | | | | |
| 0.000000+0-3.006800+5 | 0 | 0 | 1 | 649349 | 3 | 77 | | |
| 0.000000+0-4.562990+5 | 0 | 0 | 1 | 279349 | 3 | 77 | | |
| ----- | | | | | | | | |
| 0.000000+0-3.007430+5 | 0 | 0 | 1 | 639349 | 3 | 78 | | |
| 0.000000+0-4.625990+5 | 0 | 0 | 1 | 269349 | 3 | 78 | | |
| ----- | | | | | | | | |
| 0.000000+0-3.054000+5 | 0 | 0 | 1 | 629349 | 3 | 79 | | |
| 0.000000+0-5.241990+5 | 0 | 0 | 1 | 249349 | 3 | 79 | | |
| ----- | | | | | | | | |
| | | | | 9349 | 3 | 80 | Only | in VII.1 |
| | | | | 9349 | 3 | 81 | Only | in VII.1 |
| | | | | 9349 | 3 | 82 | Only | in VII.1 |
| | | | | 9349 | 3 | 83 | Only | in VII.1 |
| | | | | 9349 | 3 | 84 | Only | in VII.1 |
| | | | | 9349 | 3 | 85 | Only | in VII.1 |
| 0.000000+0-1.037400+5 | 0 | 0 | 1 | 949349 | 3 | 91 | | |
| 0.000000+0-5.279990+5 | 0 | 0 | 1 | 239349 | 3 | 91 | | |
| ----- | | | | | | | | |
| 6.215200+6 6.215200+6 | 0 | 0 | 2 | 1229349 | 3102 | | | |
| 6.216360+6 6.216360+6 | 0 | 0 | 1 | 919349 | 3102 | | | |
| ----- | | | | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 1239349 | 4 | 2 | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 769349 | 4 | 2 | | |
| ----- | | | | | | | | |
| | | | | 9349 | 4 | 16 | Only | in VII.0 |
| | | | | 9349 | 4 | 17 | Only | in VII.0 |
| 0.000000+0 2.360060+2 | 1 | 1 | 0 | 09349 | 4 | 18 | | |
| 0.000000+0 2.360060+2 | 0 | 1 | 0 | 09349 | 4 | 18 | | |
| ----- | | | | | | | | |
| | | | | 9349 | 4 | 51 | Only | in VII.0 |
| | | | | 9349 | 4 | 52 | Only | in VII.0 |
| | | | | 9349 | 4 | 53 | Only | in VII.0 |
| | | | | 9349 | 4 | 54 | Only | in VII.0 |
| | | | | 9349 | 4 | 55 | Only | in VII.0 |
| | | | | 9349 | 4 | 56 | Only | in VII.0 |
| | | | | 9349 | 4 | 57 | Only | in VII.0 |
| | | | | 9349 | 4 | 58 | Only | in VII.0 |
| | | | | 9349 | 4 | 59 | Only | in VII.0 |
| | | | | 9349 | 4 | 60 | Only | in VII.0 |
| | | | | 9349 | 4 | 61 | Only | in VII.0 |
| | | | | 9349 | 4 | 62 | Only | in VII.0 |
| | | | | 9349 | 4 | 63 | Only | in VII.0 |
| | | | | 9349 | 4 | 64 | Only | in VII.0 |
| | | | | 9349 | 4 | 65 | Only | in VII.0 |
| | | | | 9349 | 4 | 66 | Only | in VII.0 |
| | | | | 9349 | 4 | 67 | Only | in VII.0 |
| | | | | 9349 | 4 | 68 | Only | in VII.0 |
| | | | | 9349 | 4 | 69 | Only | in VII.0 |
| | | | | 9349 | 4 | 70 | Only | in VII.0 |
| | | | | 9349 | 4 | 71 | Only | in VII.0 |
| | | | | 9349 | 4 | 72 | Only | in VII.0 |
| | | | | 9349 | 4 | 73 | Only | in VII.0 |
| | | | | 9349 | 4 | 74 | Only | in VII.0 |
| | | | | 9349 | 4 | 75 | Only | in VII.0 |
| | | | | 9349 | 4 | 76 | Only | in VII.0 |

| | | | | | | | |
|-------------|------------|---|---|---|------------|------|----------|
| | | | | | 9349 4 77 | Only | in VII.0 |
| | | | | | 9349 4 78 | Only | in VII.0 |
| | | | | | 9349 4 79 | Only | in VII.0 |
| | | | | | 9349 4 91 | Only | in VII.0 |
| | | | | | 9349 5 16 | Only | in VII.0 |
| | | | | | 9349 5 17 | Only | in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29349 5 18 | | |
| -2.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29349 5 18 | | |

| | | |
|-----------|------|----------|
| 9349 5 91 | Only | in VII.0 |
| 9349 5455 | Only | in VII.1 |
| 9349 6 16 | Only | in VII.1 |
| 9349 6 17 | Only | in VII.1 |
| 9349 6 37 | Only | in VII.1 |
| 9349 6 51 | Only | in VII.1 |
| 9349 6 52 | Only | in VII.1 |
| 9349 6 53 | Only | in VII.1 |
| 9349 6 54 | Only | in VII.1 |
| 9349 6 55 | Only | in VII.1 |
| 9349 6 56 | Only | in VII.1 |
| 9349 6 57 | Only | in VII.1 |
| 9349 6 58 | Only | in VII.1 |
| 9349 6 59 | Only | in VII.1 |
| 9349 6 60 | Only | in VII.1 |
| 9349 6 61 | Only | in VII.1 |
| 9349 6 62 | Only | in VII.1 |
| 9349 6 63 | Only | in VII.1 |
| 9349 6 64 | Only | in VII.1 |
| 9349 6 65 | Only | in VII.1 |
| 9349 6 66 | Only | in VII.1 |
| 9349 6 67 | Only | in VII.1 |
| 9349 6 68 | Only | in VII.1 |
| 9349 6 69 | Only | in VII.1 |
| 9349 6 70 | Only | in VII.1 |
| 9349 6 71 | Only | in VII.1 |
| 9349 6 72 | Only | in VII.1 |
| 9349 6 73 | Only | in VII.1 |
| 9349 6 74 | Only | in VII.1 |
| 9349 6 75 | Only | in VII.1 |
| 9349 6 76 | Only | in VII.1 |
| 9349 6 77 | Only | in VII.1 |
| 9349 6 78 | Only | in VII.1 |
| 9349 6 79 | Only | in VII.1 |
| 9349 6 80 | Only | in VII.1 |
| 9349 6 81 | Only | in VII.1 |
| 9349 6 82 | Only | in VII.1 |
| 9349 6 83 | Only | in VII.1 |
| 9349 6 84 | Only | in VII.1 |
| 9349 6 85 | Only | in VII.1 |
| 9349 6 91 | Only | in VII.1 |
| 9349 6102 | Only | in VII.1 |

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| | | | | | | | |
|------------|------------|---|---|---|---------|------|--|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1079352 | 1452 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 09352 | 1452 | |

| | | |
|-----------|------|----------|
| 9352 1455 | Only | in VII.1 |
| 9352 1456 | Only | in VII.1 |

| | | | | | | | |
|------------|------------|---|---|---|-------|------|--|
| 1.000000-5 | 4.000000-1 | 0 | 0 | 0 | 09352 | 2151 | |
| 1.000000-5 | 1.500000+7 | 0 | 0 | 0 | 09352 | 2151 | |

| | | | | | | | |
|------------|------------|---|---|---|---------|---|---|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1289352 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1409352 | 3 | 1 |

| | | | | | | | |
|------------|------------|---|---|---|---------|---|---|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1119352 | 3 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 549352 | 3 | 2 |

| | | | | | | | |
|-----------------------|--|---|---|---|--------|---|---|
| 0.000000+0-3.113100+4 | | 0 | 0 | 1 | 869352 | 3 | 4 |
| 0.000000+0-3.114000+4 | | 0 | 0 | 1 | 449352 | 3 | 4 |

| | | | | | | | |
|------------------------|--|---|---|---|--------|---|----|
| -6.215200+6-6.215200+6 | | 0 | 0 | 1 | 299352 | 3 | 16 |
| -6.227020+6-6.227020+6 | | 0 | 0 | 1 | 199352 | 3 | 16 |

| | | | | | | | |
|------------------------|--|---|---|---|--------|---|----|
| -1.170350+7-1.170350+7 | | 0 | 0 | 1 | 189352 | 3 | 17 |
| -1.170560+7-1.170560+7 | | 0 | 0 | 1 | 99352 | 3 | 17 |

| | | | | | |
|-----------------------|------------|---|---|---|-------------------------|
| ----- | | | | | |
| 1.968000+8 | 1.968000+8 | 0 | 0 | 1 | 1109352 3 18 |
| 1.900000+8 | 1.900000+8 | 0 | 0 | 1 | 409352 3 18 |
| ----- | | | | | |
| | | | | | 9352 3 19 Only in VII.1 |
| | | | | | 9352 3 20 Only in VII.1 |
| | | | | | 9352 3 21 Only in VII.1 |
| | | | | | 9352 3 37 Only in VII.1 |
| | | | | | 9352 3 38 Only in VII.1 |
| 0.000000+0-3.113100+4 | | 0 | 0 | 1 | 849352 3 51 |
| 0.000000+0-3.114000+4 | | 0 | 0 | 1 | 369352 3 51 |
| ----- | | | | | |
| 0.000000+0-7.121000+4 | | 0 | 0 | 1 | 819352 3 52 |
| 0.000000+0-7.112000+4 | | 0 | 0 | 1 | 329352 3 52 |
| ----- | | | | | |
| 0.000000+0-7.466400+4 | | 0 | 0 | 1 | 809352 3 53 |
| 0.000000+0-7.467000+4 | | 0 | 0 | 1 | 329352 3 53 |
| ----- | | | | | |
| 0.000000+0-1.178400+5 | | 0 | 0 | 1 | 789352 3 54 |
| 0.000000+0-1.176590+5 | | 0 | 0 | 1 | 299352 3 54 |
| ----- | | | | | |
| 0.000000+0-1.225000+5 | | 0 | 0 | 1 | 769352 3 55 |
| 0.000000+0-1.230000+5 | | 0 | 0 | 1 | 299352 3 55 |
| ----- | | | | | |
| 0.000000+0-1.730200+5 | | 0 | 0 | 1 | 739352 3 56 |
| 0.000000+0-1.730500+5 | | 0 | 0 | 1 | 289352 3 56 |
| ----- | | | | | |
| 0.000000+0-1.800000+5 | | 0 | 0 | 1 | 729352 3 57 |
| 0.000000+0-2.414000+5 | | 0 | 0 | 1 | 279352 3 57 |
| ----- | | | | | |
| 0.000000+0-2.202000+5 | | 0 | 0 | 1 | 709352 3 58 |
| 0.000000+0-3.200000+5 | | 0 | 0 | 1 | 259352 3 58 |
| ----- | | | | | |
| | | | | | 9352 3 59 Only in VII.1 |
| | | | | | 9352 3 60 Only in VII.1 |
| | | | | | 9352 3 61 Only in VII.1 |
| | | | | | 9352 3 62 Only in VII.1 |
| | | | | | 9352 3 63 Only in VII.1 |
| | | | | | 9352 3 64 Only in VII.1 |
| | | | | | 9352 3 65 Only in VII.1 |
| | | | | | 9352 3 66 Only in VII.1 |
| | | | | | 9352 3 67 Only in VII.1 |
| | | | | | 9352 3 68 Only in VII.1 |
| | | | | | 9352 3 69 Only in VII.1 |
| | | | | | 9352 3 70 Only in VII.1 |
| 0.000000+0-1.096290+5 | | 0 | 0 | 1 | 799352 3 91 |
| 0.000000+0-4.300000+5 | | 0 | 0 | 1 | 249352 3 91 |
| ----- | | | | | |
| 5.068970+6 | 5.068970+6 | 0 | 0 | 1 | 1119352 3102 |
| 5.168100+6 | 5.168100+6 | 0 | 0 | 1 | 929352 3102 |
| ----- | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1089352 4 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 519352 4 2 |
| ----- | | | | | |
| | | | | | 9352 4 16 Only in VII.0 |
| | | | | | 9352 4 17 Only in VII.0 |
| 0.000000+0 | 2.369990+2 | 1 | 1 | 0 | 09352 4 18 |
| 0.000000+0 | 2.369990+2 | 0 | 1 | 0 | 09352 4 18 |
| ----- | | | | | |
| | | | | | 9352 4 51 Only in VII.0 |
| | | | | | 9352 4 52 Only in VII.0 |
| | | | | | 9352 4 53 Only in VII.0 |
| | | | | | 9352 4 54 Only in VII.0 |
| | | | | | 9352 4 55 Only in VII.0 |
| | | | | | 9352 4 56 Only in VII.0 |
| | | | | | 9352 4 57 Only in VII.0 |
| | | | | | 9352 4 58 Only in VII.0 |
| | | | | | 9352 4 91 Only in VII.0 |
| | | | | | 9352 5 16 Only in VII.0 |
| | | | | | 9352 5 17 Only in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29352 5 18 |
| -2.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29352 5 18 |
| ----- | | | | | |
| | | | | | 9352 5 91 Only in VII.0 |
| | | | | | 9352 6 16 Only in VII.1 |

9352 6 17 Only in VII.1
 9352 6 37 Only in VII.1
 9352 6 51 Only in VII.1
 9352 6 52 Only in VII.1
 9352 6 53 Only in VII.1
 9352 6 54 Only in VII.1
 9352 6 55 Only in VII.1
 9352 6 56 Only in VII.1
 9352 6 57 Only in VII.1
 9352 6 58 Only in VII.1
 9352 6 59 Only in VII.1
 9352 6 60 Only in VII.1
 9352 6 61 Only in VII.1
 9352 6 62 Only in VII.1
 9352 6 63 Only in VII.1
 9352 6 64 Only in VII.1
 9352 6 65 Only in VII.1
 9352 6 66 Only in VII.1
 9352 6 67 Only in VII.1
 9352 6 68 Only in VII.1
 9352 6 69 Only in VII.1
 9352 6 70 Only in VII.1
 9352 6 91 Only in VII.1
 9352 6102 Only in VII.1

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| | | | | | | | | | |
|------------------------|------------|------------|------------|------------|----------------|------|------|----|-------|
| ***** | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 179428 | 1452 | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 59428 | 1452 | | | |
| ----- | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 179428 | 1455 | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 59428 | 1455 | | | |
| ----- | | | | | | | | | |
| 1.000000-5 | 2.905500+0 | 2.000000+7 | 5.716700+0 | | 9428 | 1456 | | | |
| 1.000000-5 | 2.811800+0 | 2.000000+7 | 5.531800+0 | | 9428 | 1456 | | | |
| ----- | | | | | | | | | |
| -1.270000+0 | 5.000000-1 | 4.440740-1 | 7.400000-5 | 4.400000-2 | 4.000000-19428 | 2151 | | | |
| -1.270000+0 | 5.000000-1 | 4.441000-1 | 1.000000-4 | 4.400000-2 | 4.000000-19428 | 2151 | | | |
| ----- | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1019428 | 3 1 | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 589428 | 3 1 | | | |
| ----- | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 859428 | 3 2 | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 589428 | 3 2 | | | |
| ----- | | | | | | | | | |
| 0.000000+0-4.463000+4 | | 0 | 0 | 1 | 619428 | 3 4 | | | |
| 0.000000+0-4.463000+4 | | 0 | 0 | 1 | 519428 | 3 4 | | | |
| ----- | | | | | | | | | |
| -7.352280+6-7.352280+6 | | 0 | 0 | 1 | 259428 | 3 16 | | | |
| -7.357250+6-7.357250+6 | | 0 | 0 | 1 | 169428 | 3 16 | | | |
| ----- | | | | | | | | | |
| 1.358950+7-1.358950+7 | | 0 | 0 | 1 | 129428 | 3 17 | | | |
| -1.358720+7-1.358720+7 | | 0 | 0 | 1 | 89428 | 3 17 | | | |
| ----- | | | | | | | | | |
| 1.950420+8 | 1.950420+8 | 0 | 0 | 2 | 979428 | 3 18 | | | |
| 1.950000+8 | 1.950000+8 | 0 | 0 | 2 | 519428 | 3 18 | | | |
| ----- | | | | | | | | | |
| | | | | | 9428 | 3 19 | Only | in | VII.1 |
| | | | | | 9428 | 3 20 | Only | in | VII.1 |
| | | | | | 9428 | 3 21 | Only | in | VII.1 |
| | | | | | 9428 | 3 38 | Only | in | VII.1 |
| 0.000000+0-4.463000+4 | | 0 | 0 | 1 | 609428 | 3 51 | | | |
| 0.000000+0-4.463000+4 | | 0 | 0 | 1 | 479428 | 3 51 | | | |
| ----- | | | | | | | | | |
| 0.000000+0-1.474500+5 | | 0 | 0 | 1 | 559428 | 3 52 | | | |
| 0.000000+0-1.474500+5 | | 0 | 0 | 1 | 419428 | 3 52 | | | |
| ----- | | | | | | | | | |
| 0.000000+0-3.058000+5 | | 0 | 0 | 1 | 519428 | 3 53 | | | |
| 0.000000+0-3.058000+5 | | 0 | 0 | 1 | 399428 | 3 53 | | | |
| ----- | | | | | | | | | |
| 0.000000+0-5.157000+5 | | 0 | 0 | 1 | 489428 | 3 54 | | | |
| 0.000000+0-5.157000+5 | | 0 | 0 | 1 | 379428 | 3 54 | | | |
| ----- | | | | | | | | | |
| | | | | | 9428 | 3 55 | Only | in | VII.1 |
| 0.000000+0-1.154910+5 | | 0 | 0 | 1 | 579428 | 3 91 | | | |
| 0.000000+0-6.400000+5 | | 0 | 0 | 1 | 369428 | 3 91 | | | |

| | | | | | |
|------------------------|------------|---|---|---|-------------------------|
| ----- | | | | | |
| 5.880730+6 | 5.880730+6 | 0 | 0 | 2 | 859428 3102 |
| 5.877020+6 | 5.877020+6 | 0 | 0 | 2 | 519428 3102 |
| ----- | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 799428 4 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 579428 4 2 |
| ----- | | | | | |
| | | | | | 9428 4 16 Only in VII.0 |
| | | | | | 9428 4 17 Only in VII.0 |
| 0.000000+0 | 2.340180+2 | 1 | 1 | 0 | 09428 4 18 |
| 0.000000+0 | 2.340180+2 | 0 | 1 | 0 | 09428 4 18 |
| ----- | | | | | |
| | | | | | 9428 4 51 Only in VII.0 |
| | | | | | 9428 4 52 Only in VII.0 |
| | | | | | 9428 4 53 Only in VII.0 |
| | | | | | 9428 4 54 Only in VII.0 |
| | | | | | 9428 4 91 Only in VII.0 |
| | | | | | 9428 5 16 Only in VII.0 |
| | | | | | 9428 5 17 Only in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29428 5 18 |
| -2.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29428 5 18 |
| ----- | | | | | |
| | | | | | 9428 5 91 Only in VII.0 |
| | | | | | 9428 6 16 Only in VII.1 |
| | | | | | 9428 6 17 Only in VII.1 |
| | | | | | 9428 6 51 Only in VII.1 |
| | | | | | 9428 6 52 Only in VII.1 |
| | | | | | 9428 6 53 Only in VII.1 |
| | | | | | 9428 6 54 Only in VII.1 |
| | | | | | 9428 6 55 Only in VII.1 |
| | | | | | 9428 6 91 Only in VII.1 |
| | | | | | 9428 6102 Only in VII.1 |
| 94-Pu-237 | | | | | |
| ***** | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49431 1452 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 09431 1452 |
| ----- | | | | | |
| | | | | | 9431 1455 Only in VII.1 |
| | | | | | 9431 1456 Only in VII.1 |
| | | | | | 9431 1458 Only in VII.0 |
| 1.000000-5 | 3.000000-1 | 0 | 0 | 0 | 09431 2151 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 0 | 09431 2151 |
| ----- | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1269431 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 2419431 3 1 |
| ----- | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1219431 3 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 309431 3 2 |
| ----- | | | | | |
| 0.000000+0-4.771000+4 | | 0 | 0 | 1 | 979431 3 4 |
| 0.000000+0-4.779700+4 | | 0 | 0 | 1 | 559431 3 4 |
| ----- | | | | | |
| -5.880730+6-5.880730+6 | | 0 | 0 | 1 | 299431 3 16 |
| -5.834200+6-5.834200+6 | | 0 | 0 | 1 | 139431 3 16 |
| ----- | | | | | |
| -1.323300+7-1.323300+7 | | 0 | 0 | 1 | 149431 3 17 |
| -1.322000+7-1.322000+7 | | 0 | 0 | 1 | 49431 3 17 |
| ----- | | | | | |
| 1.964240+8 | 1.964240+8 | 0 | 0 | 1 | 1219431 3 18 |
| 1.959000+8 | 1.959000+8 | 0 | 0 | 1 | 1679431 3 18 |
| ----- | | | | | |
| 1.964240+8 | 1.964240+8 | 0 | 0 | 1 | 1219431 3 19 |
| 1.959000+8 | 1.959000+8 | 0 | 0 | 1 | 1679431 3 19 |
| ----- | | | | | |
| 1.964240+8 | 1.964240+8 | 0 | 0 | 1 | 399431 3 20 |
| 1.959000+8 | 1.959000+8 | 0 | 0 | 1 | 49431 3 20 |
| ----- | | | | | |
| | | | | | 9431 3 21 Only in VII.1 |
| | | | | | 9431 3 38 Only in VII.1 |
| 0.000000+0-4.771000+4 | | 0 | 0 | 1 | 949431 3 51 |
| 0.000000+0-4.779700+4 | | 0 | 0 | 1 | 219431 3 51 |
| ----- | | | | | |
| 0.000000+0-1.060000+5 | | 0 | 0 | 1 | 909431 3 52 |
| 0.000000+0-1.025600+5 | | 0 | 0 | 1 | 299431 3 52 |
| ----- | | | | | |

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|--------------------------|---|---|---|---------|------|-----|----|------|----------|
| 0.0000000+0-1.455440+5 | 0 | 0 | 1 | 879431 | 3 | 53 | | | |
| 0.0000000+0-1.453800+5 | 0 | 0 | 1 | 229431 | 3 | 53 | | | |
| 0.0000000+0-1.554500+5 | 0 | 0 | 1 | 869431 | 3 | 54 | | | |
| 0.0000000+0-1.563300+5 | 0 | 0 | 1 | 299431 | 3 | 54 | | | |
| 0.0000000+0-1.750000+5 | 0 | 0 | 1 | 849431 | 3 | 55 | | | |
| 0.0000000+0-1.702800+5 | 0 | 0 | 1 | 249431 | 3 | 55 | | | |
| 0.0000000+0-2.011800+5 | 0 | 0 | 1 | 829431 | 3 | 56 | | | |
| 0.0000000+0-1.991500+5 | 0 | 0 | 1 | 279431 | 3 | 56 | | | |
| 0.0000000+0-2.242500+5 | 0 | 0 | 1 | 819431 | 3 | 57 | | | |
| 0.0000000+0-2.280300+5 | 0 | 0 | 1 | 289431 | 3 | 57 | | | |
| 0.0000000+0-2.570000+5 | 0 | 0 | 1 | 799431 | 3 | 58 | | | |
| 0.0000000+0-2.788100+5 | 0 | 0 | 1 | 229431 | 3 | 58 | | | |
| 0.0000000+0-2.802200+5 | 0 | 0 | 1 | 789431 | 3 | 59 | | | |
| 0.0000000+0-3.096800+5 | 0 | 0 | 1 | 189431 | 3 | 59 | | | |
| 0.0000000+0-3.040000+5 | 0 | 0 | 1 | 769431 | 3 | 60 | | | |
| 0.0000000+0-3.196400+5 | 0 | 0 | 1 | 169431 | 3 | 60 | | | |
| | | | | | 9431 | 3 | 61 | Only | in VII.1 |
| | | | | | 9431 | 3 | 62 | Only | in VII.1 |
| | | | | | 9431 | 3 | 63 | Only | in VII.1 |
| | | | | | 9431 | 3 | 64 | Only | in VII.1 |
| | | | | | 9431 | 3 | 65 | Only | in VII.1 |
| | | | | | 9431 | 3 | 66 | Only | in VII.1 |
| | | | | | 9431 | 3 | 67 | Only | in VII.1 |
| | | | | | 9431 | 3 | 68 | Only | in VII.1 |
| | | | | | 9431 | 3 | 69 | Only | in VII.1 |
| | | | | | 9431 | 3 | 70 | Only | in VII.1 |
| | | | | | 9431 | 3 | 71 | Only | in VII.1 |
| | | | | | 9431 | 3 | 72 | Only | in VII.1 |
| | | | | | 9431 | 3 | 73 | Only | in VII.1 |
| | | | | | 9431 | 3 | 74 | Only | in VII.1 |
| | | | | | 9431 | 3 | 75 | Only | in VII.1 |
| | | | | | 9431 | 3 | 76 | Only | in VII.1 |
| | | | | | 9431 | 3 | 77 | Only | in VII.1 |
| | | | | | 9431 | 3 | 78 | Only | in VII.1 |
| | | | | | 9431 | 3 | 79 | Only | in VII.1 |
| | | | | | 9431 | 3 | 80 | Only | in VII.1 |
| 0.0000000+0-1.036650+5 | 0 | 0 | 1 | 919431 | 3 | 91 | | | |
| 0.0000000+0-3.196400+5 | 0 | 0 | 1 | 109431 | 3 | 91 | | | |
| 6.999880+6 6.999880+6 | 0 | 0 | 1 | 1219431 | 3 | 102 | | | |
| 6.998000+6 6.998000+6 | 0 | 0 | 1 | 1879431 | 3 | 102 | | | |
| 0.0000000+0 0.0000000+0 | 0 | 0 | 1 | 1189431 | 4 | 2 | | | |
| 0.0000000+0 0.0000000+0 | 0 | 0 | 1 | 199431 | 4 | 2 | | | |
| | | | | | 9431 | 4 | 16 | Only | in VII.0 |
| | | | | | 9431 | 4 | 17 | Only | in VII.0 |
| | | | | | 9431 | 4 | 19 | Only | in VII.0 |
| | | | | | 9431 | 4 | 20 | Only | in VII.0 |
| | | | | | 9431 | 4 | 51 | Only | in VII.0 |
| | | | | | 9431 | 4 | 52 | Only | in VII.0 |
| | | | | | 9431 | 4 | 53 | Only | in VII.0 |
| | | | | | 9431 | 4 | 54 | Only | in VII.0 |
| | | | | | 9431 | 4 | 55 | Only | in VII.0 |
| | | | | | 9431 | 4 | 56 | Only | in VII.0 |
| | | | | | 9431 | 4 | 57 | Only | in VII.0 |
| | | | | | 9431 | 4 | 58 | Only | in VII.0 |
| | | | | | 9431 | 4 | 59 | Only | in VII.0 |
| | | | | | 9431 | 4 | 60 | Only | in VII.0 |
| | | | | | 9431 | 4 | 91 | Only | in VII.0 |
| | | | | | 9431 | 5 | 16 | Only | in VII.0 |
| | | | | | 9431 | 5 | 17 | Only | in VII.0 |
| 0.0000000+0 0.0000000+0 | 0 | 1 | 1 | 29431 | 5 | 18 | | | |
| -3.0000000+7 0.0000000+0 | 0 | 7 | 1 | 29431 | 5 | 18 | | | |
| | | | | | 9431 | 5 | 19 | Only | in VII.0 |
| | | | | | 9431 | 5 | 20 | Only | in VII.0 |

| | | | | |
|-----------------------|---|---|---|--------------|
| 0.000000+0-4.410000+4 | 0 | 0 | 1 | 2049434 3 51 |
| 0.000000+0-4.381400+4 | 0 | 0 | 1 | 399434 3 51 |

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|-----------------------|---|---|---|---------|------|----|---------------|
| 0.000000+0-1.460000+5 | 0 | 0 | 1 | 1979434 | 3 | 52 | |
| 0.000000+0-1.453800+5 | 0 | 0 | 1 | 319434 | 3 | 52 | |
| ----- | | | | | | | |
| 0.000000+0-3.034000+5 | 0 | 0 | 1 | 1929434 | 3 | 53 | |
| 0.000000+0-3.027200+5 | 0 | 0 | 1 | 329434 | 3 | 53 | |
| ----- | | | | | | | |
| 0.000000+0-5.134000+5 | 0 | 0 | 1 | 1889434 | 3 | 54 | |
| 0.000000+0-6.024500+5 | 0 | 0 | 1 | 269434 | 3 | 54 | |
| ----- | | | | | | | |
| 0.000000+0-6.052000+5 | 0 | 0 | 1 | 979434 | 3 | 55 | |
| 0.000000+0-6.582100+5 | 0 | 0 | 1 | 269434 | 3 | 55 | |
| ----- | | | | | | | |
| 0.000000+0-6.614000+5 | 0 | 0 | 1 | 969434 | 3 | 56 | |
| 0.000000+0-7.478300+5 | 0 | 0 | 1 | 249434 | 3 | 56 | |
| ----- | | | | | | | |
| 0.000000+0-7.632000+5 | 0 | 0 | 1 | 949434 | 3 | 57 | |
| 0.000000+0-9.380300+5 | 0 | 0 | 1 | 299434 | 3 | 57 | |
| ----- | | | | | | | |
| 0.000000+0-7.728000+5 | 0 | 0 | 1 | 939434 | 3 | 58 | |
| 0.000000+0-9.579400+5 | 0 | 0 | 1 | 239434 | 3 | 58 | |
| ----- | | | | | | | |
| 0.000000+0-9.415000+5 | 0 | 0 | 1 | 909434 | 3 | 59 | |
| 0.000000+0-9.798500+5 | 0 | 0 | 1 | 269434 | 3 | 59 | |
| ----- | | | | | | | |
| 0.000000+0-9.628000+5 | 0 | 0 | 1 | 899434 | 3 | 60 | |
| 0.000000+0-9.808400+5 | 0 | 0 | 1 | 239434 | 3 | 60 | |
| ----- | | | | | | | |
| 0.000000+0-9.681000+5 | 0 | 0 | 1 | 889434 | 3 | 61 | |
| 0.000000+0-9.828400+5 | 0 | 0 | 1 | 239434 | 3 | 61 | |
| ----- | | | | | | | |
| 0.000000+0-9.831000+5 | 0 | 0 | 1 | 879434 | 3 | 62 | |
| 0.000000+0-1.015700+6 | 0 | 0 | 1 | 249434 | 3 | 62 | |
| ----- | | | | | | | |
| 0.000000+0-9.855000+5 | 0 | 0 | 1 | 869434 | 3 | 63 | |
| 0.000000+0-1.021700+6 | 0 | 0 | 1 | 229434 | 3 | 63 | |
| ----- | | | | | | | |
| 0.000000+0-1.028600+6 | 0 | 0 | 1 | 849434 | 3 | 64 | |
| 0.000000+0-1.059500+6 | 0 | 0 | 1 | 189434 | 3 | 64 | |
| ----- | | | | | | | |
| 0.000000+0-1.069900+6 | 0 | 0 | 1 | 839434 | 3 | 65 | |
| 0.000000+0-1.065500+6 | 0 | 0 | 1 | 159434 | 3 | 65 | |
| ----- | | | | | | | |
| | | | | 9434 | 3 | 66 | Only in VII.1 |
| | | | | 9434 | 3 | 67 | Only in VII.1 |
| | | | | 9434 | 3 | 68 | Only in VII.1 |
| | | | | 9434 | 3 | 69 | Only in VII.1 |
| | | | | 9434 | 3 | 70 | Only in VII.1 |
| | | | | 9434 | 3 | 71 | Only in VII.1 |
| | | | | 9434 | 3 | 72 | Only in VII.1 |
| | | | | 9434 | 3 | 73 | Only in VII.1 |
| | | | | 9434 | 3 | 74 | Only in VII.1 |
| | | | | 9434 | 3 | 75 | Only in VII.1 |
| | | | | 9434 | 3 | 76 | Only in VII.1 |
| | | | | 9434 | 3 | 77 | Only in VII.1 |
| | | | | 9434 | 3 | 78 | Only in VII.1 |
| | | | | 9434 | 3 | 79 | Only in VII.1 |
| | | | | 9434 | 3 | 80 | Only in VII.1 |
| | | | | 9434 | 3 | 81 | Only in VII.1 |
| | | | | 9434 | 3 | 82 | Only in VII.1 |
| | | | | 9434 | 3 | 83 | Only in VII.1 |
| | | | | 9434 | 3 | 84 | Only in VII.1 |
| | | | | 9434 | 3 | 85 | Only in VII.1 |
| | | | | 9434 | 3 | 86 | Only in VII.1 |
| | | | | 9434 | 3 | 87 | Only in VII.1 |
| | | | | 9434 | 3 | 88 | Only in VII.1 |
| ----- | | | | | | | |
| 0.000000+0-1.170000+6 | 0 | 0 | 1 | 1669434 | 3 | 91 | |
| 0.000000+0-1.065500+6 | 0 | 0 | 1 | 179434 | 3 | 91 | |
| ----- | | | | | | | |
| 5.646600+6 5.646600+6 | 0 | 0 | 2 | 1029434 | 3102 | | |
| 4.806000+6 4.806000+6 | 0 | 0 | 1 | 449434 | 3102 | | |
| ----- | | | | | | | |
| 0.000000+0 2.360046+2 | 0 | 2 | 0 | 09434 | 4 | 2 | |
| 0.000000+0 2.360045+2 | 0 | 2 | 0 | 09434 | 4 | 2 | |
| ----- | | | | | | | |
| | | | | 9434 | 4 | 16 | Only in VII.0 |

| | | | | | |
|------------|------------|---|---|---|-------------------------|
| | | | | | 9434 4 17 Only in VII.0 |
| | | | | | 9434 4 18 Only in VII.0 |
| | | | | | 9434 4 19 Only in VII.0 |
| | | | | | 9434 4 20 Only in VII.0 |
| 0.000000+0 | 2.360046+2 | 0 | 2 | 0 | 09434 4 51 |
| 0.000000+0 | 2.360045+2 | 1 | 2 | 0 | 09434 4 51 |
| 0.000000+0 | 2.360046+2 | 0 | 2 | 0 | 09434 4 52 |
| 0.000000+0 | 2.360045+2 | 1 | 2 | 0 | 09434 4 52 |
| 0.000000+0 | 2.360046+2 | 0 | 2 | 0 | 09434 4 53 |
| 0.000000+0 | 2.360045+2 | 1 | 2 | 0 | 09434 4 53 |
| 0.000000+0 | 2.360046+2 | 0 | 2 | 0 | 09434 4 54 |
| 0.000000+0 | 2.360045+2 | 1 | 2 | 0 | 09434 4 54 |
| 0.000000+0 | 2.360046+2 | 0 | 2 | 0 | 09434 4 55 |
| 0.000000+0 | 2.360045+2 | 1 | 2 | 0 | 09434 4 55 |
| 0.000000+0 | 2.360046+2 | 0 | 2 | 0 | 09434 4 56 |
| 0.000000+0 | 2.360045+2 | 1 | 2 | 0 | 09434 4 56 |
| 0.000000+0 | 2.360046+2 | 0 | 2 | 0 | 09434 4 57 |
| 0.000000+0 | 2.360045+2 | 1 | 2 | 0 | 09434 4 57 |
| 0.000000+0 | 2.360046+2 | 0 | 2 | 0 | 09434 4 58 |
| 0.000000+0 | 2.360050+2 | 1 | 2 | 0 | 09434 4 58 |
| 0.000000+0 | 2.360046+2 | 0 | 2 | 0 | 09434 4 59 |
| 0.000000+0 | 2.360045+2 | 1 | 2 | 0 | 09434 4 59 |
| 0.000000+0 | 2.360046+2 | 0 | 2 | 0 | 09434 4 60 |
| 0.000000+0 | 2.360045+2 | 1 | 2 | 0 | 09434 4 60 |
| 0.000000+0 | 2.360046+2 | 0 | 2 | 0 | 09434 4 61 |
| 0.000000+0 | 2.360045+2 | 1 | 2 | 0 | 09434 4 61 |
| 0.000000+0 | 2.360046+2 | 0 | 2 | 0 | 09434 4 62 |
| 0.000000+0 | 2.360045+2 | 1 | 2 | 0 | 09434 4 62 |
| 0.000000+0 | 2.360046+2 | 0 | 2 | 0 | 09434 4 63 |
| 0.000000+0 | 2.360045+2 | 1 | 2 | 0 | 09434 4 63 |
| 0.000000+0 | 2.360046+2 | 0 | 2 | 0 | 09434 4 64 |
| 0.000000+0 | 2.360045+2 | 1 | 2 | 0 | 09434 4 64 |
| 0.000000+0 | 2.360046+2 | 0 | 2 | 0 | 09434 4 65 |
| 0.000000+0 | 2.360045+2 | 1 | 2 | 0 | 09434 4 65 |
| | | | | | 9434 4 66 Only in VII.1 |
| | | | | | 9434 4 67 Only in VII.1 |
| | | | | | 9434 4 68 Only in VII.1 |
| | | | | | 9434 4 69 Only in VII.1 |
| | | | | | 9434 4 70 Only in VII.1 |
| | | | | | 9434 4 71 Only in VII.1 |
| | | | | | 9434 4 72 Only in VII.1 |
| | | | | | 9434 4 73 Only in VII.1 |
| | | | | | 9434 4 74 Only in VII.1 |
| | | | | | 9434 4 75 Only in VII.1 |
| | | | | | 9434 4 76 Only in VII.1 |
| | | | | | 9434 4 77 Only in VII.1 |
| | | | | | 9434 4 78 Only in VII.1 |
| | | | | | 9434 4 79 Only in VII.1 |
| | | | | | 9434 4 80 Only in VII.1 |
| | | | | | 9434 4 81 Only in VII.1 |
| | | | | | 9434 4 82 Only in VII.1 |
| | | | | | 9434 4 83 Only in VII.1 |
| | | | | | 9434 4 84 Only in VII.1 |
| | | | | | 9434 4 85 Only in VII.1 |
| | | | | | 9434 4 86 Only in VII.1 |
| | | | | | 9434 4 87 Only in VII.1 |
| | | | | | 9434 4 88 Only in VII.1 |
| | | | | | 9434 4 91 Only in VII.0 |
| | | | | | 9434 5 16 Only in VII.0 |
| | | | | | 9434 5 17 Only in VII.0 |

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|-------------|-------------|-------------|-------------|-------------|-------------|------|------|---------------|
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29434 | 5 | 18 | |
| -3.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29434 | 5 | 18 | |
| ----- | | | | | | | | |
| | | | | | 9434 | 5 | 19 | Only in VII.0 |
| | | | | | 9434 | 5 | 20 | Only in VII.0 |
| | | | | | 9434 | 5 | 91 | Only in VII.0 |
| 1.000000-5 | 3.767633-2 | 3.000000+7 | 3.767633-2 | | 9434 | | 5455 | |
| 1.000000-5 | 3.767633-2 | 2.000000+7 | 3.767633-2 | | 9434 | | 5455 | |
| ----- | | | | | | | | |
| | | | | | 9434 | 6 | 16 | Only in VII.1 |
| | | | | | 9434 | 6 | 17 | Only in VII.1 |
| | | | | | 9434 | 6 | 37 | Only in VII.1 |
| | | | | | 9434 | 6 | 91 | Only in VII.1 |
| 94-Pu-239 | | | | | | | | |
| ***** | | | | | | | | |
| 1.327100-2 | 3.088100-2 | 1.133700-1 | 2.925000-1 | 8.574900-1 | 2.729700+0 | 9437 | 1455 | |
| 1.248110-2 | 2.994667-2 | 1.071553-1 | 3.176193-1 | 1.352380+0 | 1.069116+1 | 9437 | 1455 | |
| ----- | | | | | | | | |
| 1.500000+1 | 9.871809-4 | 1.600000+1 | 9.452257-4 | 1.700000+1 | 1.073559-3 | 9437 | 1460 | |
| 1.500000+1 | 9.871808-4 | 1.600000+1 | 9.452257-4 | 1.700000+1 | 1.073559-3 | 9437 | 1460 | |
| ----- | | | | | | | | |
| 3.000000+4 | 8.474100+0 | 0.000000+0 | 9.474000-4 | 4.070000-2 | 2.697000+0 | 9437 | 2151 | |
| 2.950000+4 | 8.474100+0 | 0.000000+0 | 9.474000-4 | 4.070000-2 | 2.697000+0 | 9437 | 2151 | |
| ----- | | | | | | | | |
| -2.123213-2 | -5.575145-2 | 4.503431-2 | -4.007026-2 | 8.664596-4 | 9.875596-4 | 9437 | 4 76 | |
| -2.123213-2 | -5.575145-2 | 4.503431-2 | -4.007026-2 | 8.664596-4 | 9.875595-4 | 9437 | 4 76 | |
| ----- | | | | | | | | |
| -5.501023-6 | -5.653619-6 | -9.676723-7 | -1.311852-7 | -1.349319-8 | -1.592145-9 | 9437 | 4 80 | |
| -5.501023-6 | -5.653619-6 | -9.676724-7 | -1.311852-7 | -1.349319-8 | -1.592145-9 | 9437 | 4 80 | |
| ----- | | | | | | | | |
| -1.130429-2 | -9.546876-3 | -9.897758-4 | 1.520279-2 | 1.188212-2 | 4.399529-3 | 9437 | 4 89 | |
| -1.130429-2 | -9.546876-3 | -9.897757-4 | 1.520279-2 | 1.188212-2 | 4.399529-3 | 9437 | 4 89 | |
| ----- | | | | | | | | |
| 0.000000+0 | 1.000000-5 | 0 | 0 | 1 | 6439437 | 5 | 18 | |
| 0.000000+0 | 1.000000-5 | 0 | 0 | 1 | 5639437 | 5 | 18 | |
| ----- | | | | | | | | |
| 1.000000-5 | 3.630564-2 | 2.000000+7 | 3.630564-2 | | 9437 | | 5455 | |
| 1.000000-5 | 3.308424-2 | 2.000000+7 | 3.308424-2 | | 9437 | | 5455 | |
| ----- | | | | | | | | |
| 94-Pu-240 | | | | | | | | |
| ***** | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 419440 | 1452 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 59440 | 1452 | | |
| ----- | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 59440 | 1455 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49440 | 1455 | | |
| ----- | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 419440 | 1456 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 59440 | 1456 | | |
| ----- | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 5589440 | 3 | 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1309440 | 3 | 1 | |
| ----- | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 5499440 | 3 | 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1099440 | 3 | 2 | |
| ----- | | | | | | | | |
| | | | | | 9440 | 3 | 3 | Only in VII.1 |
| 0.000000+0 | -4.280000+4 | 0 | 0 | 1 | 1989440 | 3 | 4 | |
| 0.000000+0 | -4.280000+4 | 0 | 0 | 1 | 1089440 | 3 | 4 | |
| ----- | | | | | | | | |
| -6.533530+6 | -6.533530+6 | 0 | 0 | 1 | 779440 | 3 | 16 | |
| -6.533500+6 | -6.533500+6 | 0 | 0 | 1 | 299440 | 3 | 16 | |
| ----- | | | | | | | | |
| -1.218010+7 | -1.218010+7 | 0 | 0 | 1 | 549440 | 3 | 17 | |
| -1.218900+7 | -1.218900+7 | 0 | 0 | 1 | 179440 | 3 | 17 | |
| ----- | | | | | | | | |
| 1.994700+8 | 1.994700+8 | 0 | 0 | 2 | 4859440 | 3 | 18 | |
| 1.994700+8 | 1.994700+8 | 0 | 0 | 1 | 1099440 | 3 | 18 | |
| ----- | | | | | | | | |
| 1.994700+8 | 1.994700+8 | 0 | 0 | 2 | 4859440 | 3 | 19 | |
| 1.994700+8 | 1.994700+8 | 0 | 0 | 1 | 1099440 | 3 | 19 | |
| ----- | | | | | | | | |
| 1.994700+8 | 1.994700+8 | 0 | 0 | 1 | 859440 | 3 | 20 | |
| 1.994700+8 | 1.994700+8 | 0 | 0 | 1 | 349440 | 3 | 20 | |
| ----- | | | | | | | | |

| | | | | | | | | |
|-----------------------|------------|---|---|---|---------|---|----|---------------|
| 1.994700+8 | 1.994700+8 | 0 | 0 | 1 | 619440 | 3 | 21 | |
| 1.994700+8 | 1.994700+8 | 0 | 0 | 1 | 179440 | 3 | 21 | |
| | | | | | | | | |
| | | | | | 9440 | 3 | 37 | Only in VII.1 |
| | | | | | 9440 | 3 | 38 | Only in VII.1 |
| 0.000000+0-4.280000+4 | | 0 | 0 | 1 | 1989440 | 3 | 51 | |
| 0.000000+0-4.280000+4 | | 0 | 0 | 1 | 1059440 | 3 | 51 | |
| | | | | | | | | |
| 0.000000+0-1.417000+5 | | 0 | 0 | 1 | 1819440 | 3 | 52 | |
| 0.000000+0-1.417000+5 | | 0 | 0 | 1 | 909440 | 3 | 52 | |
| | | | | | | | | |
| 0.000000+0-2.943000+5 | | 0 | 0 | 1 | 1699440 | 3 | 53 | |
| 0.000000+0-2.940000+5 | | 0 | 0 | 1 | 799440 | 3 | 53 | |
| | | | | | | | | |
| 0.000000+0-4.975000+5 | | 0 | 0 | 1 | 1649440 | 3 | 54 | |
| 0.000000+0-4.980000+5 | | 0 | 0 | 1 | 739440 | 3 | 54 | |
| | | | | | | | | |
| 0.000000+0-5.973000+5 | | 0 | 0 | 1 | 889440 | 3 | 55 | |
| 0.000000+0-5.970000+5 | | 0 | 0 | 1 | 489440 | 3 | 55 | |
| | | | | | | | | |
| 0.000000+0-6.489000+5 | | 0 | 0 | 1 | 859440 | 3 | 56 | |
| 0.000000+0-6.490000+5 | | 0 | 0 | 1 | 489440 | 3 | 56 | |
| | | | | | | | | |
| 0.000000+0-7.423000+5 | | 0 | 0 | 1 | 839440 | 3 | 57 | |
| 0.000000+0-7.420000+5 | | 0 | 0 | 1 | 469440 | 3 | 57 | |
| | | | | | | | | |
| 0.000000+0-7.478000+5 | | 0 | 0 | 1 | 819440 | 3 | 58 | |
| 0.000000+0-8.607000+5 | | 0 | 0 | 1 | 359440 | 3 | 58 | |
| | | | | | | | | |
| 0.000000+0-8.607000+5 | | 0 | 0 | 1 | 789440 | 3 | 59 | |
| 0.000000+0-9.000000+5 | | 0 | 0 | 1 | 329440 | 3 | 59 | |
| | | | | | | | | |
| 0.000000+0-9.003000+5 | | 0 | 0 | 1 | 769440 | 3 | 60 | |
| 0.000000+0-9.380000+5 | | 0 | 0 | 1 | 329440 | 3 | 60 | |
| | | | | | | | | |
| 0.000000+0-9.381000+5 | | 0 | 0 | 1 | 759440 | 3 | 61 | |
| 0.000000+0-9.590000+5 | | 0 | 0 | 1 | 329440 | 3 | 61 | |
| | | | | | | | | |
| 0.000000+0-9.588000+5 | | 0 | 0 | 1 | 739440 | 3 | 62 | |
| 0.000000+0-9.930000+5 | | 0 | 0 | 1 | 299440 | 3 | 62 | |
| | | | | | | | | |
| 0.000000+0-9.922000+5 | | 0 | 0 | 1 | 729440 | 3 | 63 | |
| 0.000000+0-1.002000+6 | | 0 | 0 | 1 | 309440 | 3 | 63 | |
| | | | | | | | | |
| 0.000000+0-1.001900+6 | | 0 | 0 | 1 | 709440 | 3 | 64 | |
| 0.000000+0-1.031000+6 | | 0 | 0 | 1 | 309440 | 3 | 64 | |
| | | | | | | | | |
| 0.000000+0-1.030500+6 | | 0 | 0 | 1 | 699440 | 3 | 65 | |
| 0.000000+0-1.038000+6 | | 0 | 0 | 1 | 309440 | 3 | 65 | |
| | | | | | | | | |
| 0.000000+0-1.037500+6 | | 0 | 0 | 1 | 689440 | 3 | 66 | |
| 0.000000+0-1.076000+6 | | 0 | 0 | 1 | 249440 | 3 | 66 | |
| | | | | | | | | |
| 0.000000+0-1.041800+6 | | 0 | 0 | 1 | 679440 | 3 | 67 | |
| 0.000000+0-1.089700+6 | | 0 | 0 | 1 | 249440 | 3 | 67 | |
| | | | | | | | | |
| 0.000000+0-1.076200+6 | | 0 | 0 | 1 | 659440 | 3 | 68 | |
| 0.000000+0-1.116000+6 | | 0 | 0 | 1 | 249440 | 3 | 68 | |
| | | | | | | | | |
| 0.000000+0-1.089500+6 | | 0 | 0 | 1 | 649440 | 3 | 69 | |
| 0.000000+0-1.137500+6 | | 0 | 0 | 1 | 249440 | 3 | 69 | |
| | | | | | | | | |
| | | | | | 9440 | 3 | 70 | Only in VII.1 |
| | | | | | 9440 | 3 | 71 | Only in VII.1 |
| | | | | | 9440 | 3 | 72 | Only in VII.1 |
| | | | | | 9440 | 3 | 73 | Only in VII.1 |
| | | | | | 9440 | 3 | 74 | Only in VII.1 |
| | | | | | 9440 | 3 | 75 | Only in VII.1 |
| | | | | | 9440 | 3 | 76 | Only in VII.1 |
| | | | | | 9440 | 3 | 77 | Only in VII.1 |
| | | | | | 9440 | 3 | 78 | Only in VII.1 |
| | | | | | 9440 | 3 | 79 | Only in VII.1 |
| | | | | | 9440 | 3 | 80 | Only in VII.1 |
| | | | | | 9440 | 3 | 81 | Only in VII.1 |
| | | | | | 9440 | 3 | 82 | Only in VII.1 |

| | | | | | |
|-----------------------|------------|---|---|---|-------------------------|
| | | | | | 9440 3 83 Only in VII.1 |
| | | | | | 9440 3 84 Only in VII.1 |
| | | | | | 9440 3 85 Only in VII.1 |
| | | | | | 9440 3 86 Only in VII.1 |
| | | | | | 9440 3 87 Only in VII.1 |
| | | | | | 9440 3 88 Only in VII.1 |
| | | | | | 9440 3 89 Only in VII.1 |
| | | | | | 9440 3 90 Only in VII.1 |
| 0.000000+0-1.131950+6 | | 0 | 0 | 1 | 1349440 3 91 |
| 0.000000+0-1.140000+6 | | 0 | 0 | 1 | 539440 3 91 |
| ----- | | | | | |
| 5.241520+6 | 5.241520+6 | 0 | 0 | 2 | 1109440 3102 |
| 5.241000+6 | 5.241000+6 | 0 | 0 | 1 | 1159440 3102 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 2 |
| 0.000000+0 | 2.379920+2 | 0 | 2 | 0 | 09440 4 2 |
| ----- | | | | | |
| | | | | | 9440 4 16 Only in VII.0 |
| | | | | | 9440 4 17 Only in VII.0 |
| 0.000000+0 | 2.379916+2 | 1 | 1 | 0 | 09440 4 18 |
| 0.000000+0 | 2.379920+2 | 1 | 1 | 0 | 09440 4 18 |
| ----- | | | | | |
| | | | | | 9440 4 19 Only in VII.0 |
| | | | | | 9440 4 20 Only in VII.0 |
| | | | | | 9440 4 21 Only in VII.0 |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 51 |
| 0.000000+0 | 2.379920+2 | 0 | 2 | 0 | 09440 4 51 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 52 |
| 0.000000+0 | 2.379920+2 | 0 | 2 | 0 | 09440 4 52 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 53 |
| 0.000000+0 | 2.379920+2 | 0 | 2 | 0 | 09440 4 53 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 54 |
| 0.000000+0 | 2.379920+2 | 1 | 2 | 0 | 09440 4 54 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 55 |
| 0.000000+0 | 2.379920+2 | 1 | 2 | 0 | 09440 4 55 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 56 |
| 0.000000+0 | 2.379920+2 | 1 | 2 | 0 | 09440 4 56 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 57 |
| 0.000000+0 | 2.379920+2 | 1 | 2 | 0 | 09440 4 57 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 58 |
| 0.000000+0 | 2.379920+2 | 1 | 2 | 0 | 09440 4 58 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 59 |
| 0.000000+0 | 2.379920+2 | 1 | 2 | 0 | 09440 4 59 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 60 |
| 0.000000+0 | 2.379920+2 | 1 | 2 | 0 | 09440 4 60 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 61 |
| 0.000000+0 | 2.379920+2 | 1 | 2 | 0 | 09440 4 61 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 62 |
| 0.000000+0 | 2.379920+2 | 1 | 2 | 0 | 09440 4 62 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 63 |
| 0.000000+0 | 2.379920+2 | 1 | 2 | 0 | 09440 4 63 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 64 |
| 0.000000+0 | 2.379920+2 | 1 | 2 | 0 | 09440 4 64 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 65 |
| 0.000000+0 | 2.379920+2 | 1 | 2 | 0 | 09440 4 65 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 66 |
| 0.000000+0 | 2.379920+2 | 1 | 2 | 0 | 09440 4 66 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 67 |
| 0.000000+0 | 2.379920+2 | 1 | 2 | 0 | 09440 4 67 |

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|------------------------|------------|------------|------------|------------|-------------------------|
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 68 |
| 0.000000+0 | 2.379920+2 | 1 | 2 | 0 | 09440 4 68 |
| ----- | | | | | |
| 0.000000+0 | 2.379916+2 | 0 | 2 | 0 | 09440 4 69 |
| 0.000000+0 | 2.379920+2 | 1 | 2 | 0 | 09440 4 69 |
| ----- | | | | | |
| | | | | | 9440 4 70 Only in VII.1 |
| | | | | | 9440 4 71 Only in VII.1 |
| | | | | | 9440 4 72 Only in VII.1 |
| | | | | | 9440 4 73 Only in VII.1 |
| | | | | | 9440 4 74 Only in VII.1 |
| | | | | | 9440 4 75 Only in VII.1 |
| | | | | | 9440 4 76 Only in VII.1 |
| | | | | | 9440 4 77 Only in VII.1 |
| | | | | | 9440 4 78 Only in VII.1 |
| | | | | | 9440 4 79 Only in VII.1 |
| | | | | | 9440 4 80 Only in VII.1 |
| | | | | | 9440 4 81 Only in VII.1 |
| | | | | | 9440 4 82 Only in VII.1 |
| | | | | | 9440 4 83 Only in VII.1 |
| | | | | | 9440 4 84 Only in VII.1 |
| | | | | | 9440 4 85 Only in VII.1 |
| | | | | | 9440 4 86 Only in VII.1 |
| | | | | | 9440 4 87 Only in VII.1 |
| | | | | | 9440 4 88 Only in VII.1 |
| | | | | | 9440 4 89 Only in VII.1 |
| | | | | | 9440 4 90 Only in VII.1 |
| | | | | | 9440 4 91 Only in VII.0 |
| | | | | | 9440 5 16 Only in VII.0 |
| | | | | | 9440 5 17 Only in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29440 5 18 |
| -3.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29440 5 18 |
| ----- | | | | | |
| | | | | | 9440 5 19 Only in VII.0 |
| | | | | | 9440 5 20 Only in VII.0 |
| | | | | | 9440 5 21 Only in VII.0 |
| | | | | | 9440 5 91 Only in VII.0 |
| | | | | | 9440 6 16 Only in VII.1 |
| | | | | | 9440 6 17 Only in VII.1 |
| | | | | | 9440 6 37 Only in VII.1 |
| | | | | | 9440 6 91 Only in VII.1 |
| 94-Pu-241 | | | | | |
| ***** | | | | | |
| 94-Pu-242 | | | | | |
| ***** | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 179446 1452 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49446 1452 |
| ----- | | | | | |
| 1.360000-2 | 3.020000-2 | 1.154000-1 | 3.042000-1 | 8.272000-1 | 3.137200+09446 1455 |
| 1.360300-2 | 3.023800-2 | 1.154300-1 | 3.041900-1 | 8.272100-1 | 3.137200+09446 1455 |
| ----- | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 29446 1456 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49446 1456 |
| ----- | | | | | |
| 1.744870+8 | 0.000000+0 | 7.000000+6 | 0.000000+0 | 8.000000+3 | 0.000000+09446 1458 |
| 1.740000+8 | 2.000000+6 | 6.760000+6 | 5.400000+5 | 1.000000+4 | 2.000000+39446 1458 |
| ----- | | | | | |
| 1.000000-5 | 1.000000+3 | 1 | 2 | 0 | 09446 2151 |
| 1.000000-5 | 9.860000+2 | 1 | 1 | 0 | 09446 2151 |
| ----- | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1199446 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1519446 3 1 |
| ----- | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1199446 3 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1489446 3 2 |
| ----- | | | | | |
| 0.000000+0-4.454000+4 | | 0 | 0 | 1 | 769446 3 4 |
| 0.000000+0-4.454000+4 | | 0 | 0 | 1 | 1399446 3 4 |
| ----- | | | | | |
| -6.309720+6-6.309720+6 | | 0 | 0 | 1 | 289446 3 16 |
| -6.300800+6-6.300800+6 | | 0 | 0 | 1 | 529446 3 16 |
| ----- | | | | | |
| -1.155120+7-1.155120+7 | | 0 | 0 | 1 | 169446 3 17 |
| -1.154100+7-1.154100+7 | | 0 | 0 | 1 | 259446 3 17 |

| | | | | | | | | |
|-----------------------|------------|---|---|---|---------|------|-----|------------------|
| | | | | | | | | |
| 2.027780+8 | 2.027780+8 | 0 | 0 | 2 | 1119446 | 3 | 18 | |
| 2.015800+8 | 2.015800+8 | 0 | 0 | 1 | 1329446 | 3 | 18 | |
| | | | | | | 9446 | 3 | 19 Only in VII.1 |
| | | | | | | 9446 | 3 | 20 Only in VII.1 |
| | | | | | | 9446 | 3 | 21 Only in VII.1 |
| | | | | | | 9446 | 3 | 37 Only in VII.1 |
| | | | | | | 9446 | 3 | 38 Only in VII.1 |
| 0.000000+0-4.454000+4 | | 0 | 0 | 1 | 759446 | 3 | 51 | |
| 0.000000+0-4.454000+4 | | 0 | 0 | 1 | 1399446 | 3 | 51 | |
| | | | | | | | | |
| 0.000000+0-1.473000+5 | | 0 | 0 | 1 | 709446 | 3 | 52 | |
| 0.000000+0-1.472000+5 | | 0 | 0 | 1 | 1319446 | 3 | 52 | |
| | | | | | | | | |
| 0.000000+0-3.064000+5 | | 0 | 0 | 1 | 669446 | 3 | 53 | |
| 0.000000+0-3.059000+5 | | 0 | 0 | 1 | 1239446 | 3 | 53 | |
| | | | | | | | | |
| 0.000000+0-5.181000+5 | | 0 | 0 | 1 | 639446 | 3 | 54 | |
| 0.000000+0-5.176000+5 | | 0 | 0 | 1 | 1149446 | 3 | 54 | |
| | | | | | | | | |
| 0.000000+0-7.786000+5 | | 0 | 0 | 1 | 609446 | 3 | 55 | |
| 0.000000+0-7.787000+5 | | 0 | 0 | 1 | 769446 | 3 | 55 | |
| | | | | | | | | |
| 0.000000+0-7.804500+5 | | 0 | 0 | 1 | 599446 | 3 | 56 | |
| 0.000000+0-7.803000+5 | | 0 | 0 | 1 | 779446 | 3 | 56 | |
| | | | | | | | | |
| 0.000000+0-8.323000+5 | | 0 | 0 | 1 | 579446 | 3 | 57 | |
| 0.000000+0-8.329000+5 | | 0 | 0 | 1 | 759446 | 3 | 57 | |
| | | | | | | | | |
| 0.000000+0-8.650000+5 | | 0 | 0 | 1 | 569446 | 3 | 58 | |
| 0.000000+0-8.650000+5 | | 0 | 0 | 1 | 739446 | 3 | 58 | |
| | | | | | | | | |
| 0.000000+0-9.270000+5 | | 0 | 0 | 1 | 549446 | 3 | 59 | |
| 0.000000+0-9.270000+5 | | 0 | 0 | 1 | 719446 | 3 | 59 | |
| | | | | | | | | |
| 0.000000+0-9.560000+5 | | 0 | 0 | 1 | 539446 | 3 | 60 | |
| 0.000000+0-9.560000+5 | | 0 | 0 | 1 | 699446 | 3 | 60 | |
| | | | | | | | | |
| 0.000000+0-9.925000+5 | | 0 | 0 | 1 | 529446 | 3 | 61 | |
| 0.000000+0-9.856000+5 | | 0 | 0 | 1 | 689446 | 3 | 61 | |
| | | | | | | | | |
| 0.000000+0-1.019500+6 | | 0 | 0 | 1 | 509446 | 3 | 62 | |
| 0.000000+0-9.950000+5 | | 0 | 0 | 1 | 679446 | 3 | 62 | |
| | | | | | | | | |
| 0.000000+0-1.039200+6 | | 0 | 0 | 1 | 499446 | 3 | 63 | |
| 0.000000+0-1.019000+6 | | 0 | 0 | 1 | 659446 | 3 | 63 | |
| | | | | | | | | |
| 0.000000+0-1.064000+6 | | 0 | 0 | 1 | 489446 | 3 | 64 | |
| 0.000000+0-1.040000+6 | | 0 | 0 | 1 | 649446 | 3 | 64 | |
| | | | | | | | | |
| 0.000000+0-1.084400+6 | | 0 | 0 | 1 | 479446 | 3 | 65 | |
| 0.000000+0-1.064000+6 | | 0 | 0 | 1 | 629446 | 3 | 65 | |
| | | | | | | | | |
| 0.000000+0-1.092100+6 | | 0 | 0 | 1 | 469446 | 3 | 66 | |
| 0.000000+0-1.087000+6 | | 0 | 0 | 1 | 559446 | 3 | 66 | |
| | | | | | | | | |
| 0.000000+0-1.102000+6 | | 0 | 0 | 1 | 459446 | 3 | 67 | |
| 0.000000+0-1.102000+6 | | 0 | 0 | 1 | 599446 | 3 | 67 | |
| | | | | | | | | |
| 0.000000+0-1.122000+6 | | 0 | 0 | 1 | 449446 | 3 | 68 | |
| 0.000000+0-1.122000+6 | | 0 | 0 | 1 | 589446 | 3 | 68 | |
| | | | | | | | | |
| 0.000000+0-1.151000+6 | | 0 | 0 | 1 | 439446 | 3 | 69 | |
| 0.000000+0-1.152000+6 | | 0 | 0 | 1 | 569446 | 3 | 69 | |
| | | | | | | | | |
| | | | | | | 9446 | 3 | 70 Only in VII.1 |
| 0.000000+0-1.154790+5 | | 0 | 0 | 1 | 729446 | 3 | 91 | |
| 0.000000+0-4.232400+5 | | 0 | 0 | 1 | 1189446 | 3 | 91 | |
| | | | | | | | | |
| 5.034200+6 | 5.034200+6 | 0 | 0 | 2 | 869446 | 3 | 102 | |
| 5.071000+6 | 5.071000+6 | 0 | 0 | 3 | 1329446 | 3 | 102 | |
| | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 949446 | 4 | 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 219446 | 4 | 2 | |

| | | | | | | | | |
|-------------|------------|----|----|---|------------|-------------|------|----------|
| | | | | | | 9446 4 16 | Only | in VII.0 |
| | | | | | | 9446 4 17 | Only | in VII.0 |
| | | | | | | 9446 4 51 | Only | in VII.0 |
| | | | | | | 9446 4 52 | Only | in VII.0 |
| | | | | | | 9446 4 53 | Only | in VII.0 |
| | | | | | | 9446 4 54 | Only | in VII.0 |
| | | | | | | 9446 4 55 | Only | in VII.0 |
| | | | | | | 9446 4 56 | Only | in VII.0 |
| | | | | | | 9446 4 57 | Only | in VII.0 |
| | | | | | | 9446 4 58 | Only | in VII.0 |
| | | | | | | 9446 4 59 | Only | in VII.0 |
| | | | | | | 9446 4 60 | Only | in VII.0 |
| | | | | | | 9446 4 61 | Only | in VII.0 |
| | | | | | | 9446 4 62 | Only | in VII.0 |
| | | | | | | 9446 4 63 | Only | in VII.0 |
| | | | | | | 9446 4 64 | Only | in VII.0 |
| | | | | | | 9446 4 65 | Only | in VII.0 |
| | | | | | | 9446 4 66 | Only | in VII.0 |
| | | | | | | 9446 4 67 | Only | in VII.0 |
| | | | | | | 9446 4 68 | Only | in VII.0 |
| | | | | | | 9446 4 69 | Only | in VII.0 |
| | | | | | | 9446 4 91 | Only | in VII.0 |
| | | | | | | 9446 5 16 | Only | in VII.0 |
| | | | | | | 9446 5 17 | Only | in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29446 5 18 | | | |
| -3.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29446 5 18 | | | |
| | | | | | | 9446 5 91 | Only | in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 29446 5455 | | | |
| 0.000000+0 | 0.000000+0 | 73 | 73 | 1 | 29446 5455 | | | |
| | | | | | | 9446 6 16 | Only | in VII.1 |
| | | | | | | 9446 6 17 | Only | in VII.1 |
| | | | | | | 9446 6 37 | Only | in VII.1 |
| | | | | | | 9446 6 51 | Only | in VII.1 |
| | | | | | | 9446 6 52 | Only | in VII.1 |
| | | | | | | 9446 6 53 | Only | in VII.1 |
| | | | | | | 9446 6 54 | Only | in VII.1 |
| | | | | | | 9446 6 55 | Only | in VII.1 |
| | | | | | | 9446 6 56 | Only | in VII.1 |
| | | | | | | 9446 6 57 | Only | in VII.1 |
| | | | | | | 9446 6 58 | Only | in VII.1 |
| | | | | | | 9446 6 59 | Only | in VII.1 |
| | | | | | | 9446 6 60 | Only | in VII.1 |
| | | | | | | 9446 6 61 | Only | in VII.1 |
| | | | | | | 9446 6 62 | Only | in VII.1 |
| | | | | | | 9446 6 63 | Only | in VII.1 |
| | | | | | | 9446 6 64 | Only | in VII.1 |
| | | | | | | 9446 6 65 | Only | in VII.1 |
| | | | | | | 9446 6 66 | Only | in VII.1 |
| | | | | | | 9446 6 67 | Only | in VII.1 |
| | | | | | | 9446 6 68 | Only | in VII.1 |
| | | | | | | 9446 6 69 | Only | in VII.1 |
| | | | | | | 9446 6 70 | Only | in VII.1 |
| | | | | | | 9446 6 91 | Only | in VII.1 |
| | | | | | | 9446 6102 | Only | in VII.1 |
| 94-Pu-243 | | | | | | | | |
| ***** | | | | | | | | |
| 94-Pu-244 | | | | | | | | |
| ***** | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49452 1452 | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 09452 1452 | | | |
| | | | | | | 9452 1455 | Only | in VII.1 |
| | | | | | | 9452 1456 | Only | in VII.1 |
| | | | | | | 9452 1458 | Only | in VII.0 |
| 1.000000-5 | 2.900000+2 | 1 | 2 | 0 | 09452 2151 | | | |
| 1.000000-5 | 2.492000+2 | 1 | 1 | 0 | 09452 2151 | | | |
| | | | | | | 1199452 3 1 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 749452 3 1 | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | | | |
| | | | | | | 1199452 3 2 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 349452 3 2 | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | | | |

| | | | | | |
|------------------------|---|---|---|--------------|---------------|
| ----- | | | | | |
| 0.000000+0-4.420000+4 | 0 | 0 | 1 | 639452 3 4 | |
| 0.000000+0-4.381900+4 | 0 | 0 | 1 | 559452 3 4 | |
| ----- | | | | | |
| -6.021270+6-6.021270+6 | 0 | 0 | 1 | 289452 3 16 | |
| -5.993200+6-5.993200+6 | 0 | 0 | 1 | 109452 3 16 | |
| ----- | | | | | |
| -1.105550+7-1.105550+7 | 0 | 0 | 1 | 179452 3 17 | |
| -1.105500+7-1.105500+7 | 0 | 0 | 1 | 69452 3 17 | |
| ----- | | | | | |
| 2.042000+8 2.042000+8 | 0 | 0 | 2 | 1139452 3 18 | |
| 2.028500+8 2.028500+8 | 0 | 0 | 1 | 509452 3 18 | |
| ----- | | | | | |
| 2.042000+8 2.042000+8 | 0 | 0 | 2 | 859452 3 19 | |
| 2.028500+8 2.028500+8 | 0 | 0 | 1 | 429452 3 19 | |
| ----- | | | | | |
| 2.042000+8 2.042000+8 | 0 | 0 | 1 | 619452 3 20 | |
| 2.028500+8 2.028500+8 | 0 | 0 | 1 | 109452 3 20 | |
| ----- | | | | | |
| | | | | 9452 3 21 | Only in VII.1 |
| -1.736520+7-1.736520+7 | 0 | 0 | 1 | 39452 3 37 | |
| -1.735630+7-1.735630+7 | 0 | 0 | 1 | 29452 3 37 | |
| ----- | | | | | |
| | | | | 9452 3 38 | Only in VII.1 |
| 0.000000+0-4.420000+4 | 0 | 0 | 1 | 629452 3 51 | |
| 0.000000+0-4.381900+4 | 0 | 0 | 1 | 329452 3 51 | |
| ----- | | | | | |
| 0.000000+0-1.550000+5 | 0 | 0 | 1 | 579452 3 52 | |
| 0.000000+0-1.424100+5 | 0 | 0 | 1 | 309452 3 52 | |
| ----- | | | | | |
| 0.000000+0-3.179000+5 | 0 | 0 | 1 | 539452 3 53 | |
| 0.000000+0-2.947800+5 | 0 | 0 | 1 | 259452 3 53 | |
| ----- | | | | | |
| 0.000000+0-5.350000+5 | 0 | 0 | 1 | 509452 3 54 | |
| 0.000000+0-5.975300+5 | 0 | 0 | 1 | 259452 3 54 | |
| ----- | | | | | |
| 0.000000+0-7.080000+5 | 0 | 0 | 1 | 479452 3 55 | |
| 0.000000+0-6.473200+5 | 0 | 0 | 1 | 199452 3 55 | |
| ----- | | | | | |
| | | | | 9452 3 56 | Only in VII.1 |
| | | | | 9452 3 57 | Only in VII.1 |
| 0.000000+0-1.154750+5 | 0 | 0 | 1 | 599452 3 91 | |
| 0.000000+0-6.473200+5 | 0 | 0 | 1 | 179452 3 91 | |
| ----- | | | | | |
| 4.770800+6 4.770800+6 | 0 | 0 | 2 | 779452 3 102 | |
| 4.720000+6 4.720000+6 | 0 | 0 | 1 | 399452 3 102 | |
| ----- | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 819452 4 2 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 199452 4 2 | |
| ----- | | | | | |
| | | | | 9452 4 16 | Only in VII.0 |
| | | | | 9452 4 17 | Only in VII.0 |
| | | | | 9452 4 19 | Only in VII.0 |
| | | | | 9452 4 20 | Only in VII.0 |
| | | | | 9452 4 37 | Only in VII.0 |
| | | | | 9452 4 51 | Only in VII.0 |
| | | | | 9452 4 52 | Only in VII.0 |
| | | | | 9452 4 53 | Only in VII.0 |
| | | | | 9452 4 54 | Only in VII.0 |
| | | | | 9452 4 55 | Only in VII.0 |
| | | | | 9452 4 91 | Only in VII.0 |
| | | | | 9452 5 16 | Only in VII.0 |
| | | | | 9452 5 17 | Only in VII.0 |
| 0.000000+0 0.000000+0 | 0 | 1 | 1 | 29452 5 18 | |
| -3.000000+7 0.000000+0 | 0 | 7 | 1 | 29452 5 18 | |
| ----- | | | | | |
| | | | | 9452 5 19 | Only in VII.0 |
| | | | | 9452 5 20 | Only in VII.0 |
| | | | | 9452 5 37 | Only in VII.0 |
| | | | | 9452 5 91 | Only in VII.0 |
| | | | | 9452 6 16 | Only in VII.1 |
| | | | | 9452 6 17 | Only in VII.1 |
| | | | | 9452 6 37 | Only in VII.1 |
| | | | | 9452 6 51 | Only in VII.1 |
| | | | | 9452 6 52 | Only in VII.1 |

9452 6 53 Only in VII.1
 9452 6 54 Only in VII.1
 9452 6 55 Only in VII.1
 9452 6 56 Only in VII.1
 9452 6 57 Only in VII.1
 9452 6 91 Only in VII.1
 9452 6102 Only in VII.1

94-Pu-246

 1.000000-5 2.678200+0 4.000000+6 3.462200+0 7.000000+6 4.018200+0 9458 1452
 1.000000-5 3.038200+0 4.000000+6 3.822200+0 7.000000+6 4.378200+0 9458 1452

 1.000000-5 2.580000+0 2.000000+7 6.500000+0 9458 1456
 1.000000-5 2.940000+0 2.000000+7 6.860000+0 9458 1456

 1.000000-5 1.800000+1 0 0 0 09458 2151
 1.000000-5 6.000000-1 0 0 0 09458 2151

 0.000000+0 0.000000+0 0 0 1 1049458 3 1
 0.000000+0 0.000000+0 0 0 1 1019458 3 1

 0.000000+0 0.000000+0 0 0 1 959458 3 2
 0.000000+0 0.000000+0 0 0 2 1029458 3 2

 0.000000+0-4.600000+4 0 0 1 679458 3 4
 0.000000+0-4.600000+4 0 0 1 589458 3 4

 -5.782200+6-5.782200+6 0 0 1 309458 3 16
 -5.880400+6-5.880400+6 0 0 1 289458 3 16

 -1.055300+7-1.055300+7 0 0 1 199458 3 17
 -1.057870+7-1.057870+7 0 0 1 199458 3 17

 2.071000+8 2.071000+8 0 0 1 669458 3 18
 2.000000+8 2.000000+8 0 0 2 499458 3 18

 9458 3 19 Only in VII.1
 9458 3 20 Only in VII.1
 9458 3 21 Only in VII.1
 9458 3 37 Only in VII.1
 9458 3 38 Only in VII.1
 0.000000+0-4.600000+4 0 0 1 669458 3 51
 0.000000+0-4.600000+4 0 0 1 369458 3 51

 0.000000+0-1.550000+5 0 0 1 619458 3 52
 0.000000+0-1.550000+5 0 0 1 309458 3 52

 9458 3 53 Only in VII.1
 9458 3 54 Only in VII.1
 9458 3 55 Only in VII.1
 9458 3 56 Only in VII.1
 9458 3 57 Only in VII.1
 9458 3 58 Only in VII.1
 9458 3 59 Only in VII.1
 0.000000+0-1.154710+5 0 0 1 639458 3 91
 0.000000+0-3.000000+5 0 0 1 469458 3 91

 4.470510+6 4.470510+6 0 0 1 879458 3102
 5.969640+6 5.969640+6 0 0 1 649458 3102

 0.000000+0 0.000000+0 0 0 1 909458 4 2
 0.000000+0 0.000000+0 0 0 1 189458 4 2

 9458 4 16 Only in VII.0
 9458 4 17 Only in VII.0
 9458 4 51 Only in VII.0
 9458 4 52 Only in VII.0
 9458 4 91 Only in VII.0
 9458 5 16 Only in VII.0
 9458 5 17 Only in VII.0
 0.000000+0 0.000000+0 0 1 1 29458 5 18
 -2.000000+8 0.000000+0 0 7 1 29458 5 18

 9458 5 91 Only in VII.0
 9458 6 16 Only in VII.1

9458 6 17 Only in VII.1
9458 6 37 Only in VII.1
9458 6 51 Only in VII.1
9458 6 52 Only in VII.1
9458 6 53 Only in VII.1
9458 6 54 Only in VII.1
9458 6 55 Only in VII.1
9458 6 56 Only in VII.1
9458 6 57 Only in VII.1
9458 6 58 Only in VII.1
9458 6 59 Only in VII.1
9458 6 91 Only in VII.1
9458 6102 Only in VII.1

95-Am-240 Evaluation Only in VII.1

95-Am-241

| | | | | | | |
|------------|------------|---|---|---|-------|------|
| 9.524100+4 | 1.000000+0 | 0 | 1 | 2 | 09543 | 2151 |
| 9.524101+4 | 1.000000+0 | 0 | 1 | 2 | 09543 | 2151 |

| | | | | | | |
|------------|------------|---|---|---|---------|-----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 3629543 | 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1799543 | 3 1 |

| | | | | | | |
|------------|------------|---|---|---|---------|-----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 3629543 | 3 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1779543 | 3 2 |

| | | | | | | |
|------------|------------|------------|------------|------------|----------------|-----|
| 1.586611+5 | 6.811654-1 | 2.000000+5 | 8.024741-1 | 2.067616+5 | 8.194659-19543 | 3 4 |
| 1.586611+5 | 6.811654-1 | 2.000000+5 | 8.024741-1 | 2.067616+5 | 8.194658-19543 | 3 4 |

| | | | | | | |
|------------|------------|---|---|---|---------|------|
| 2.019601+8 | 2.019601+8 | 0 | 0 | 1 | 2529543 | 3 18 |
| 2.019601+8 | 2.019601+8 | 0 | 0 | 1 | 1059543 | 3 18 |

| | | | | | | |
|------------|------------|---|---|---|--------|------|
| 5.539101+6 | 5.539101+6 | 0 | 0 | 2 | 819543 | 3102 |
| 5.539101+6 | 5.539101+6 | 0 | 0 | 2 | 789543 | 3102 |

| | | | | | | |
|------------|------------|---|---|---|-------|------|
| 9.524100+4 | 2.389860+2 | 0 | 1 | 1 | 29543 | 6 91 |
| 9.524101+4 | 2.389860+2 | 0 | 1 | 1 | 29543 | 6 91 |

95-Am-242

| | | | | | | |
|------------|------------|---|---|---|-------------|---------------|
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 9546 4 18 | Only in VII.1 |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 29546 6 16 | |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 379546 6 16 | |

| | | | | | | |
|------------|------------|---|---|---|-------------|--|
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 29546 6 17 | |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 149546 6 17 | |

95-Am-242m

| | | | | | | |
|------------|------------|------------|------------|------------|----------------|-----|
| 1.500000+4 | 0.000000+0 | 2.000000+4 | 0.000000+0 | 2.500000+4 | 2.003490-39547 | 3 4 |
| 1.500000+4 | 0.000000+0 | 2.000000+4 | 0.000000+0 | 2.500000+4 | 1.903490-39547 | 3 4 |

| | | | | | | |
|------------|------------|------------|------------|------------|----------------|------|
| 2.000000+4 | 0.000000+0 | 2.500000+4 | 1.183308-4 | 3.000000+4 | 2.198553-59547 | 3 51 |
| 2.000000+4 | 0.000000+0 | 2.500000+4 | 1.183308-4 | 3.000000+4 | 9.640164-59547 | 3 51 |

| | | | | | | |
|------------|------------|------------|------------|------------|----------------|------|
| 2.000000+4 | 0.000000+0 | 2.500000+4 | 1.216820-7 | 3.000000+4 | 2.000000-79547 | 3 52 |
| 2.000000+4 | 0.000000+0 | 2.500000+4 | 2.585243-6 | 3.000000+4 | 1.440153-69547 | 3 52 |

| | | | | | | |
|------------|------------|------------|------------|------------|----------------|------|
| 2.000000+4 | 0.000000+0 | 2.500000+4 | 2.520574-3 | 3.000000+4 | 3.770214-39547 | 3 53 |
| 2.000000+4 | 0.000000+0 | 2.500000+4 | 1.782574-3 | 3.000000+4 | 1.770214-39547 | 3 53 |

| | | | | | | |
|------------|------------|------------|------------|------------|----------------|------|
| 2.731335+4 | 0.000000+0 | 3.000000+4 | 6.992005-5 | 3.500000+4 | 2.056291-49547 | 3 54 |
| 2.731335+4 | 0.000000+0 | 3.000000+4 | 9.992005-5 | 3.500000+4 | 1.056291-49547 | 3 54 |

| | | | | | | |
|------------|------------|---|---|---|-------------|--|
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 29547 6 16 | |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 229547 6 16 | |

| | | | | | | |
|------------|------------|---|---|---|-------------|--|
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 29547 6 17 | |
| 1.000000+0 | 1.000000+0 | 0 | 1 | 1 | 119547 6 17 | |

95-Am-243

95-Am-244

| | | | | | | |
|------------|------------|------------|------------|------------|----------------|-----|
| 4.093830-3 | 1.066980-3 | 2.371010-4 | 4.305140-5 | 7.526600-6 | 9.550751-79552 | 4 2 |
|------------|------------|------------|------------|------------|----------------|-----|

| | | | | | | | | | |
|------------------------------------|-------------|------------|-------------|------------|-------------|---------|------|----|---------------|
| 4.093830-3 | 1.066980-3 | 2.371010-4 | 4.305140-5 | 7.526600-6 | 9.550750-7 | 9552 | 4 | 2 | |
| ----- | | | | | | | | | |
| 0.000000+0 | -9.927639-7 | | | | | 9552 | 4 | 72 | |
| 0.000000+0 | -9.927640-7 | | | | | 9552 | 4 | 72 | |
| ----- | | | | | | | | | |
| 0.000000+0 | -9.916261-7 | | | | | 9552 | 4 | 73 | |
| 0.000000+0 | -9.916260-7 | | | | | 9552 | 4 | 73 | |
| ----- | | | | | | | | | |
| 95-Am-244m | | | | | | | | | |
| ***** | | | | | | | | | |
| 2.095200+5 | 6.525000-4 | 2.357210+5 | 9.306930-4 | 2.400000+5 | 9.788109-4 | 9553 | 3 | 56 | |
| 2.095200+5 | 6.525000-4 | 2.357210+5 | 9.306930-4 | 2.400000+5 | 9.788110-4 | 9553 | 3 | 56 | |
| ----- | | | | | | | | | |
| 4.000000+6 | 1.061630-5 | 5.000000+6 | 9.887621-7 | 5.385400+6 | 4.192480-7 | 9553 | 3 | 69 | |
| 4.000000+6 | 1.061630-5 | 5.000000+6 | 9.887620-7 | 5.385400+6 | 4.192480-7 | 9553 | 3 | 69 | |
| ----- | | | | | | | | | |
| 4.093830-3 | 1.066980-3 | 2.371010-4 | 4.305140-5 | 7.526600-6 | 9.550751-7 | 9553 | 4 | 2 | |
| 4.093830-3 | 1.066980-3 | 2.371010-4 | 4.305140-5 | 7.526600-6 | 9.550750-7 | 9553 | 4 | 2 | |
| ----- | | | | | | | | | |
| 0.000000+0 | 9.977171-7 | 0.000000+0 | -2.207510-5 | 0.000000+0 | -8.782030-6 | 9553 | 4 | 63 | |
| 0.000000+0 | 9.977170-7 | 0.000000+0 | -2.207510-5 | 0.000000+0 | -8.782030-6 | 9553 | 4 | 63 | |
| ----- | | | | | | | | | |
| 96-Cm-240 Evaluation Only in VII.1 | | | | | | | | | |
| ***** | | | | | | | | | |
| 96-Cm-241 | | | | | | | | | |
| ***** | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 49628 | 1452 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | | 09628 | 1452 | | |
| ----- | | | | | | | | | |
| | | | | | | 9628 | 1455 | | Only in VII.1 |
| | | | | | | 9628 | 1456 | | Only in VII.1 |
| | | | | | | 9628 | 1458 | | Only in VII.0 |
| 1.000000-5 | 1.100000+0 | 0 | 0 | 0 | | 09628 | 2151 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 0 | | 09628 | 2151 | | |
| ----- | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 1029628 | 3 | 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | | 649628 | 3 | 1 | |
| ----- | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | | 1019628 | 3 | 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | | 249628 | 3 | 2 | |
| ----- | | | | | | | | | |
| 0.000000+0 | -5.500000+3 | 0 | 0 | 1 | | 749628 | 3 | 4 | |
| 0.000000+0 | -1.593300+4 | 0 | 0 | 1 | | 439628 | 3 | 4 | |
| ----- | | | | | | | | | |
| -6.093330+6 | -6.093330+6 | 0 | 0 | 1 | | 299628 | 3 | 16 | |
| -6.044700+6 | -6.044700+6 | 0 | 0 | 1 | | 129628 | 3 | 16 | |
| ----- | | | | | | | | | |
| -1.363120+7 | -1.363120+7 | 0 | 0 | 1 | | 139628 | 3 | 17 | |
| -1.353000+7 | -1.353000+7 | 0 | 0 | 1 | | 49628 | 3 | 17 | |
| ----- | | | | | | | | | |
| 2.020000+8 | 2.020000+8 | 0 | 0 | 1 | | 959628 | 3 | 18 | |
| 2.023500+8 | 2.023500+8 | 0 | 0 | 2 | | 389628 | 3 | 18 | |
| ----- | | | | | | | | | |
| 2.020000+8 | 2.020000+8 | 0 | 0 | 1 | | 959628 | 3 | 19 | |
| 2.023500+8 | 2.023500+8 | 0 | 0 | 2 | | 389628 | 3 | 19 | |
| ----- | | | | | | | | | |
| 2.020000+8 | 2.020000+8 | 0 | 0 | 1 | | 389628 | 3 | 20 | |
| 2.023500+8 | 2.023500+8 | 0 | 0 | 1 | | 29628 | 3 | 20 | |
| ----- | | | | | | | | | |
| | | | | | | 9628 | 3 | 21 | Only in VII.1 |
| | | | | | | 9628 | 3 | 38 | Only in VII.1 |
| 0.000000+0 | -5.500000+3 | 0 | 0 | 1 | | 739628 | 3 | 51 | |
| 0.000000+0 | -1.593300+4 | 0 | 0 | 1 | | 259628 | 3 | 51 | |
| ----- | | | | | | | | | |
| 0.000000+0 | -5.710000+4 | 0 | 0 | 1 | | 679628 | 3 | 52 | |
| 0.000000+0 | -5.277900+4 | 0 | 0 | 1 | | 269628 | 3 | 52 | |
| ----- | | | | | | | | | |
| 0.000000+0 | -8.100000+4 | 0 | 0 | 1 | | 659628 | 3 | 53 | |
| 0.000000+0 | -1.035700+5 | 0 | 0 | 1 | | 229628 | 3 | 53 | |
| ----- | | | | | | | | | |
| 0.000000+0 | -1.630000+5 | 0 | 0 | 1 | | 619628 | 3 | 54 | |
| 0.000000+0 | -2.539400+5 | 0 | 0 | 1 | | 149628 | 3 | 54 | |
| ----- | | | | | | | | | |
| 0.000000+0 | -1.104600+5 | 0 | 0 | 1 | | 649628 | 3 | 91 | |
| 0.000000+0 | -2.539400+5 | 0 | 0 | 1 | | 119628 | 3 | 91 | |

| | | | | | | | |
|------------------------|------------|------------|------------|------------|------------|-----------|---------------|
| ----- | | | | | | | |
| 6.969520+6 | 6.969520+6 | 0 | 0 | 1 | 959628 | 3102 | |
| 6.968000+6 | 6.968000+6 | 0 | 0 | 2 | 399628 | 3102 | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 939628 | 4 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 199628 | 4 2 | |
| ----- | | | | | | | |
| | | | | | | 9628 4 16 | Only in VII.0 |
| | | | | | | 9628 4 17 | Only in VII.0 |
| | | | | | | 9628 4 19 | Only in VII.0 |
| | | | | | | 9628 4 20 | Only in VII.0 |
| | | | | | | 9628 4 51 | Only in VII.0 |
| | | | | | | 9628 4 52 | Only in VII.0 |
| | | | | | | 9628 4 53 | Only in VII.0 |
| | | | | | | 9628 4 54 | Only in VII.0 |
| | | | | | | 9628 4 91 | Only in VII.0 |
| | | | | | | 9628 5 16 | Only in VII.0 |
| | | | | | | 9628 5 17 | Only in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29628 | 5 18 | |
| -3.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29628 | 5 18 | |
| ----- | | | | | | | |
| | | | | | | 9628 5 19 | Only in VII.0 |
| | | | | | | 9628 5 20 | Only in VII.0 |
| | | | | | | 9628 5 91 | Only in VII.0 |
| | | | | | | 9628 6 16 | Only in VII.1 |
| | | | | | | 9628 6 17 | Only in VII.1 |
| | | | | | | 9628 6 51 | Only in VII.1 |
| | | | | | | 9628 6 52 | Only in VII.1 |
| | | | | | | 9628 6 53 | Only in VII.1 |
| | | | | | | 9628 6 54 | Only in VII.1 |
| | | | | | | 9628 6 91 | Only in VII.1 |
| | | | | | | 9628 6102 | Only in VII.1 |
| 96-Cm-242 | | | | | | | |
| ***** | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 179631 | 1452 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49631 | 1452 | |
| ----- | | | | | | | |
| 1.300000-2 | 3.120000-2 | 1.129000-1 | 2.783000-1 | 8.710000-1 | 2.196900+0 | 9631 1455 | |
| 1.295600-2 | 3.124500-2 | 1.129100-1 | 2.783400-1 | 8.710400-1 | 2.196900+0 | 9631 1455 | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 29631 | 1456 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49631 | 1456 | |
| ----- | | | | | | | |
| 1.821130+8 | 0.000000+0 | 5.875000+6 | 0.000000+0 | 1.000000+3 | 0.000000+0 | 9631 1458 | |
| 1.862200+8 | 1.988700+6 | 5.200000+6 | 4.160000+5 | 5.000000+2 | 5.000000+2 | 9631 1458 | |
| ----- | | | | | | | |
| 1.000000-5 | 2.750000+2 | 1 | 2 | 0 | 09631 | 2151 | |
| 1.000000-5 | 2.760000+2 | 1 | 1 | 0 | 09631 | 2151 | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1039631 | 3 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 549631 | 3 1 | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1049631 | 3 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 289631 | 3 2 | |
| ----- | | | | | | | |
| 0.000000+0-4.213000+4 | | 0 | 0 | 1 | 699631 | 3 4 | |
| 0.000000+0-4.182600+4 | | 0 | 0 | 1 | 369631 | 3 4 | |
| ----- | | | | | | | |
| -6.969520+6-6.969520+6 | | 0 | 0 | 1 | 279631 | 3 16 | |
| -6.939100+6-6.939100+6 | | 0 | 0 | 1 | 119631 | 3 16 | |
| ----- | | | | | | | |
| -1.306280+7-1.306280+7 | | 0 | 0 | 1 | 149631 | 3 17 | |
| -1.303800+7-1.303800+7 | | 0 | 0 | 1 | 49631 | 3 17 | |
| ----- | | | | | | | |
| 2.034610+8 | 2.034610+8 | 0 | 0 | 2 | 999631 | 3 18 | |
| 2.025500+8 | 2.025500+8 | 0 | 0 | 1 | 339631 | 3 18 | |
| ----- | | | | | | | |
| 2.034610+8 | 2.034610+8 | 0 | 0 | 2 | 879631 | 3 19 | |
| 2.025500+8 | 2.025500+8 | 0 | 0 | 1 | 319631 | 3 19 | |
| ----- | | | | | | | |
| 2.034610+8 | 2.034610+8 | 0 | 0 | 1 | 489631 | 3 20 | |
| 2.025500+8 | 2.025500+8 | 0 | 0 | 1 | 49631 | 3 20 | |
| ----- | | | | | | | |
| | | | | | | 9631 3 21 | Only in VII.1 |
| | | | | | | 9631 3 38 | Only in VII.1 |

| | | | | | | | |
|------------------------|---|---|---|---------|------|----|---------------|
| 0.000000+0-4.213000+4 | 0 | 0 | 1 | 689631 | 3 | 51 | |
| 0.000000+0-4.182600+4 | 0 | 0 | 1 | 309631 | 3 | 51 | |
| ----- | | | | | | | |
| 0.000000+0-1.370000+5 | 0 | 0 | 1 | 639631 | 3 | 52 | |
| 0.000000+0-1.384200+5 | 0 | 0 | 1 | 259631 | 3 | 52 | |
| ----- | | | | | | | |
| 0.000000+0-2.880000+5 | 0 | 0 | 1 | 589631 | 3 | 53 | |
| 0.000000+0-2.838200+5 | 0 | 0 | 1 | 149631 | 3 | 53 | |
| ----- | | | | | | | |
| 0.000000+0-1.095440+5 | 0 | 0 | 1 | 659631 | 3 | 91 | |
| 0.000000+0-2.838200+5 | 0 | 0 | 1 | 209631 | 3 | 91 | |
| ----- | | | | | | | |
| 5.692940+6 5.692940+6 | 0 | 0 | 2 | 839631 | 3102 | | |
| 5.703000+6 5.703000+6 | 0 | 0 | 1 | 349631 | 3102 | | |
| ----- | | | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 929631 | 4 | 2 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 199631 | 4 | 2 | |
| ----- | | | | | | | |
| | | | | 9631 | 4 | 16 | Only in VII.0 |
| | | | | 9631 | 4 | 17 | Only in VII.0 |
| | | | | 9631 | 4 | 19 | Only in VII.0 |
| | | | | 9631 | 4 | 20 | Only in VII.0 |
| | | | | 9631 | 4 | 51 | Only in VII.0 |
| | | | | 9631 | 4 | 52 | Only in VII.0 |
| | | | | 9631 | 4 | 53 | Only in VII.0 |
| | | | | 9631 | 4 | 91 | Only in VII.0 |
| | | | | 9631 | 5 | 16 | Only in VII.0 |
| | | | | 9631 | 5 | 17 | Only in VII.0 |
| 0.000000+0 0.000000+0 | 0 | 1 | 1 | 29631 | 5 | 18 | |
| -3.000000+7 0.000000+0 | 0 | 7 | 1 | 29631 | 5 | 18 | |
| ----- | | | | | | | |
| | | | | 9631 | 5 | 19 | Only in VII.0 |
| | | | | 9631 | 5 | 20 | Only in VII.0 |
| | | | | 9631 | 5 | 91 | Only in VII.0 |
| | | | | 9631 | 6 | 16 | Only in VII.1 |
| | | | | 9631 | 6 | 17 | Only in VII.1 |
| | | | | 9631 | 6 | 51 | Only in VII.1 |
| | | | | 9631 | 6 | 52 | Only in VII.1 |
| | | | | 9631 | 6 | 53 | Only in VII.1 |
| | | | | 9631 | 6 | 91 | Only in VII.1 |
| | | | | 9631 | 6102 | | Only in VII.1 |
| ----- | | | | | | | |
| 96-Cm-243 | | | | | | | |
| ***** | | | | | | | |
| | | | | 9634 | 1458 | | Only in VII.1 |
| 1.000000-5 1.000000+2 | 1 | 2 | 0 | 09634 | 2151 | | |
| 1.000000-5 1.000000+2 | 1 | 1 | 0 | 09634 | 2151 | | |
| ----- | | | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 2 | 1139634 | 3 | 1 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 679634 | 3 | 1 | |
| ----- | | | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 2 | 1019634 | 3 | 2 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 679634 | 3 | 2 | |
| ----- | | | | | | | |
| 0.000000+0-4.200000+4 | 0 | 0 | 1 | 669634 | 3 | 4 | |
| 0.000000+0-4.200000+4 | 0 | 0 | 1 | 659634 | 3 | 4 | |
| ----- | | | | | | | |
| -5.692940+6-5.692940+6 | 0 | 0 | 1 | 299634 | 3 | 16 | |
| -5.693710+6-5.693710+6 | 0 | 0 | 1 | 169634 | 3 | 16 | |
| ----- | | | | | | | |
| -1.266250+7-1.266250+7 | 0 | 0 | 1 | 149634 | 3 | 17 | |
| -1.266380+7-1.266380+7 | 0 | 0 | 1 | 89634 | 3 | 17 | |
| ----- | | | | | | | |
| 2.040240+8 2.040240+8 | 0 | 0 | 2 | 1089634 | 3 | 18 | |
| 2.000000+8 2.000000+8 | 0 | 0 | 1 | 679634 | 3 | 18 | |
| ----- | | | | | | | |
| 2.040240+8 2.040240+8 | 0 | 0 | 2 | 979634 | 3 | 19 | |
| 2.000000+8 2.000000+8 | 0 | 0 | 1 | 679634 | 3 | 19 | |
| ----- | | | | | | | |
| 2.040240+8 2.040240+8 | 0 | 0 | 1 | 469634 | 3 | 20 | |
| 2.000000+8 2.000000+8 | 0 | 0 | 1 | 179634 | 3 | 20 | |
| ----- | | | | | | | |
| 2.040240+8 2.040240+8 | 0 | 0 | 1 | 209634 | 3 | 21 | |
| 2.000000+8 2.000000+8 | 0 | 0 | 1 | 109634 | 3 | 21 | |
| ----- | | | | | | | |
| | | | | 9634 | 3 | 38 | Only in VII.1 |

| | | | | | | | | |
|-----------------------|---|---|---|--------|------|----|------|----------|
| 0.000000+0-4.200000+4 | 0 | 0 | 1 | 649634 | 3 | 51 | | |
| 0.000000+0-4.200000+4 | 0 | 0 | 1 | 659634 | 3 | 51 | | |
| 0.000000+0-8.740000+4 | 0 | 0 | 1 | 619634 | 3 | 52 | | |
| 0.000000+0-8.740000+4 | 0 | 0 | 1 | 479634 | 3 | 52 | | |
| 0.000000+0-9.400000+4 | 0 | 0 | 1 | 609634 | 3 | 53 | | |
| 0.000000+0-9.390000+4 | 0 | 0 | 1 | 609634 | 3 | 53 | | |
| 0.000000+0-9.400000+4 | 0 | 0 | 1 | 609634 | 3 | 54 | | |
| 0.000000+0-9.400000+4 | 0 | 0 | 1 | 459634 | 3 | 54 | | |
| 0.000000+0-1.300000+5 | 0 | 0 | 1 | 579634 | 3 | 55 | | |
| 0.000000+0-1.330000+5 | 0 | 0 | 1 | 439634 | 3 | 55 | | |
| 0.000000+0-1.530000+5 | 0 | 0 | 1 | 569634 | 3 | 56 | | |
| 0.000000+0-1.400000+5 | 0 | 0 | 1 | 429634 | 3 | 56 | | |
| 0.000000+0-1.640000+5 | 0 | 0 | 1 | 559634 | 3 | 57 | | |
| 0.000000+0-1.530000+5 | 0 | 0 | 1 | 549634 | 3 | 57 | | |
| 0.000000+0-1.870000+5 | 0 | 0 | 1 | 539634 | 3 | 58 | | |
| 0.000000+0-1.580000+5 | 0 | 0 | 1 | 399634 | 3 | 58 | | |
| 0.000000+0-2.190000+5 | 0 | 0 | 1 | 519634 | 3 | 59 | | |
| 0.000000+0-1.640000+5 | 0 | 0 | 1 | 389634 | 3 | 59 | | |
| 0.000000+0-2.280000+5 | 0 | 0 | 1 | 509634 | 3 | 60 | | |
| 0.000000+0-2.190000+5 | 0 | 0 | 1 | 509634 | 3 | 60 | | |
| | | | | 9634 | 3 | 61 | Only | in VII.0 |
| | | | | 9634 | 3 | 62 | Only | in VII.0 |
| | | | | 9634 | 3 | 63 | Only | in VII.0 |
| | | | | 9634 | 3 | 64 | Only | in VII.0 |
| | | | | 9634 | 3 | 65 | Only | in VII.0 |
| | | | | 9634 | 3 | 66 | Only | in VII.0 |
| | | | | 9634 | 3 | 67 | Only | in VII.0 |
| | | | | 9634 | 3 | 68 | Only | in VII.0 |
| | | | | 9634 | 3 | 69 | Only | in VII.0 |
| | | | | 9634 | 3 | 70 | Only | in VII.0 |
| | | | | 9634 | 3 | 71 | Only | in VII.0 |
| | | | | 9634 | 3 | 72 | Only | in VII.0 |
| | | | | 9634 | 3 | 73 | Only | in VII.0 |
| | | | | 9634 | 3 | 74 | Only | in VII.0 |
| 0.000000+0-1.154770+5 | 0 | 0 | 1 | 599634 | 3 | 91 | | |
| 0.000000+0-4.010000+5 | 0 | 0 | 1 | 319634 | 3 | 91 | | |
| 6.801260+6 6.801260+6 | 0 | 0 | 2 | 809634 | 3102 | | | |
| 6.799500+6 6.799500+6 | 0 | 0 | 1 | 529634 | 3102 | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 799634 | 4 | 2 | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 179634 | 4 | 2 | | |
| | | | | 9634 | 4 | 16 | Only | in VII.0 |
| | | | | 9634 | 4 | 17 | Only | in VII.0 |
| | | | | 9634 | 4 | 19 | Only | in VII.0 |
| | | | | 9634 | 4 | 20 | Only | in VII.0 |
| | | | | 9634 | 4 | 21 | Only | in VII.0 |
| | | | | 9634 | 4 | 51 | Only | in VII.0 |
| | | | | 9634 | 4 | 52 | Only | in VII.0 |
| | | | | 9634 | 4 | 53 | Only | in VII.0 |
| | | | | 9634 | 4 | 54 | Only | in VII.0 |
| | | | | 9634 | 4 | 55 | Only | in VII.0 |
| | | | | 9634 | 4 | 56 | Only | in VII.0 |
| | | | | 9634 | 4 | 57 | Only | in VII.0 |
| | | | | 9634 | 4 | 58 | Only | in VII.0 |
| | | | | 9634 | 4 | 59 | Only | in VII.0 |
| | | | | 9634 | 4 | 60 | Only | in VII.0 |
| | | | | 9634 | 4 | 61 | Only | in VII.0 |
| | | | | 9634 | 4 | 62 | Only | in VII.0 |
| | | | | 9634 | 4 | 63 | Only | in VII.0 |
| | | | | 9634 | 4 | 64 | Only | in VII.0 |
| | | | | 9634 | 4 | 65 | Only | in VII.0 |
| | | | | 9634 | 4 | 66 | Only | in VII.0 |
| | | | | 9634 | 4 | 67 | Only | in VII.0 |

| | | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|-----------|----------|
| | | | | | 9634 4 68 | Only | in VII.0 |
| | | | | | 9634 4 69 | Only | in VII.0 |
| | | | | | 9634 4 70 | Only | in VII.0 |
| | | | | | 9634 4 71 | Only | in VII.0 |
| | | | | | 9634 4 72 | Only | in VII.0 |
| | | | | | 9634 4 73 | Only | in VII.0 |
| | | | | | 9634 4 74 | Only | in VII.0 |
| | | | | | 9634 4 91 | Only | in VII.0 |
| | | | | | 9634 5 16 | Only | in VII.0 |
| | | | | | 9634 5 17 | Only | in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29634 5 18 | | |
| -2.000000+7 | 0.000000+0 | 0 | 1 | 1 | 29634 5 18 | | |
| ----- | | | | | | | |
| | | | | | 9634 5 19 | Only | in VII.0 |
| | | | | | 9634 5 20 | Only | in VII.0 |
| | | | | | 9634 5 21 | Only | in VII.0 |
| | | | | | 9634 5 91 | Only | in VII.0 |
| | | | | | 9634 6 16 | Only | in VII.1 |
| | | | | | 9634 6 17 | Only | in VII.1 |
| | | | | | 9634 6 51 | Only | in VII.1 |
| | | | | | 9634 6 52 | Only | in VII.1 |
| | | | | | 9634 6 53 | Only | in VII.1 |
| | | | | | 9634 6 54 | Only | in VII.1 |
| | | | | | 9634 6 55 | Only | in VII.1 |
| | | | | | 9634 6 56 | Only | in VII.1 |
| | | | | | 9634 6 57 | Only | in VII.1 |
| | | | | | 9634 6 58 | Only | in VII.1 |
| | | | | | 9634 6 59 | Only | in VII.1 |
| | | | | | 9634 6 60 | Only | in VII.1 |
| | | | | | 9634 6 91 | Only | in VII.1 |
| | | | | | 9634 6102 | Only | in VII.1 |
| 96-Cm-244 | | | | | | | |
| ***** | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 179637 1452 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49637 1452 | | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 179637 1455 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49637 1455 | | |
| ----- | | | | | | | |
| 1.000000-5 | 3.000000+0 | 2.000000+7 | 6.068800+0 | | 9637 1456 | | |
| 1.000000-5 | 3.240000+0 | 2.000000+7 | 6.920000+0 | | 9637 1456 | | |
| ----- | | | | | | | |
| | | | | | 9637 1458 | Only | in VII.1 |
| -6.650000+0 | 5.000000-1 | 4.760000-2 | 4.200000-3 | 3.700000-2 | 6.400000-3 | 9637 2151 | |
| -1.480000+0 | 5.000000-1 | 4.478500-2 | 8.500000-5 | 3.700000-2 | 7.700000-3 | 9637 2151 | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 969637 3 1 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1109637 3 1 | | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 949637 3 2 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1109637 3 2 | | |
| ----- | | | | | | | |
| 0.000000+0 | -4.296500+4 | 0 | 0 | 1 | 679637 3 4 | | |
| 0.000000+0 | -4.296500+4 | 0 | 0 | 1 | 549637 3 4 | | |
| ----- | | | | | | | |
| -6.801260+6 | -6.801260+6 | 0 | 0 | 1 | 279637 3 16 | | |
| -6.799400+6 | -6.799400+6 | 0 | 0 | 1 | 269637 3 16 | | |
| ----- | | | | | | | |
| -1.249420+7 | -1.249420+7 | 0 | 0 | 1 | 149637 3 17 | | |
| -1.249400+7 | -1.249400+7 | 0 | 0 | 1 | 169637 3 17 | | |
| ----- | | | | | | | |
| 2.083760+8 | 2.083760+8 | 0 | 0 | 2 | 899637 3 18 | | |
| 2.000000+8 | 2.000000+8 | 0 | 0 | 1 | 649637 3 18 | | |
| ----- | | | | | | | |
| | | | | | 9637 3 19 | Only | in VII.1 |
| | | | | | 9637 3 20 | Only | in VII.1 |
| | | | | | 9637 3 21 | Only | in VII.1 |
| | | | | | 9637 3 38 | Only | in VII.1 |
| 0.000000+0 | -4.296500+4 | 0 | 0 | 1 | 669637 3 51 | | |
| 0.000000+0 | -4.296500+4 | 0 | 0 | 1 | 509637 3 51 | | |
| ----- | | | | | | | |
| 0.000000+0 | -1.423480+5 | 0 | 0 | 1 | 619637 3 52 | | |
| 0.000000+0 | -1.423500+5 | 0 | 0 | 1 | 479637 3 52 | | |
| ----- | | | | | | | |
| 0.000000+0 | -2.962110+5 | 0 | 0 | 1 | 589637 3 53 | | |

| | | | | | |
|------------------------|---|---|---|-------------|---------------|
| 0.000000+0-2.962100+5 | 0 | 0 | 1 | 419637 3 53 | |
| ----- | | | | | |
| 0.000000+0-5.017860+5 | 0 | 0 | 1 | 549637 3 54 | |
| 0.000000+0-5.017900+5 | 0 | 0 | 1 | 429637 3 54 | |
| ----- | | | | | |
| 0.000000+0-9.700000+5 | 0 | 0 | 1 | 499637 3 55 | |
| 0.000000+0-9.700000+5 | 0 | 0 | 1 | 259637 3 55 | |
| ----- | | | | | |
| 0.000000+0-9.849140+5 | 0 | 0 | 1 | 489637 3 56 | |
| 0.000000+0-9.849100+5 | 0 | 0 | 1 | 249637 3 56 | |
| ----- | | | | | |
| 0.000000+0-1.020760+6 | 0 | 0 | 1 | 469637 3 57 | |
| 0.000000+0-1.020800+6 | 0 | 0 | 1 | 229637 3 57 | |
| ----- | | | | | |
| 0.000000+0-1.038000+6 | 0 | 0 | 1 | 459637 3 58 | |
| 0.000000+0-1.038000+6 | 0 | 0 | 1 | 219637 3 58 | |
| ----- | | | | | |
| 0.000000+0-1.040190+6 | 0 | 0 | 1 | 449637 3 59 | |
| 0.000000+0-1.040200+6 | 0 | 0 | 1 | 209637 3 59 | |
| ----- | | | | | |
| | | | | 9637 3 60 | Only in VII.1 |
| | | | | 9637 3 61 | Only in VII.1 |
| 0.000000+0-1.154750+5 | 0 | 0 | 1 | 639637 3 91 | |
| 0.000000+0-1.084200+6 | 0 | 0 | 1 | 169637 3 91 | |
| ----- | | | | | |
| 5.520260+6 5.520260+6 | 0 | 0 | 2 | 779637 3102 | |
| 5.522430+6 5.522430+6 | 0 | 0 | 2 | 549637 3102 | |
| ----- | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 809637 4 2 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 539637 4 2 | |
| ----- | | | | | |
| | | | | 9637 4 16 | Only in VII.0 |
| | | | | 9637 4 17 | Only in VII.0 |
| | | | | 9637 4 51 | Only in VII.0 |
| | | | | 9637 4 52 | Only in VII.0 |
| | | | | 9637 4 53 | Only in VII.0 |
| | | | | 9637 4 54 | Only in VII.0 |
| | | | | 9637 4 55 | Only in VII.0 |
| | | | | 9637 4 56 | Only in VII.0 |
| | | | | 9637 4 57 | Only in VII.0 |
| | | | | 9637 4 58 | Only in VII.0 |
| | | | | 9637 4 59 | Only in VII.0 |
| | | | | 9637 4 91 | Only in VII.0 |
| | | | | 9637 5 16 | Only in VII.0 |
| | | | | 9637 5 17 | Only in VII.0 |
| 0.000000+0 0.000000+0 | 0 | 1 | 1 | 29637 5 18 | |
| -2.000000+7 0.000000+0 | 0 | 7 | 1 | 29637 5 18 | |
| ----- | | | | | |
| | | | | 9637 5 91 | Only in VII.0 |
| | | | | 9637 6 16 | Only in VII.1 |
| | | | | 9637 6 17 | Only in VII.1 |
| | | | | 9637 6 51 | Only in VII.1 |
| | | | | 9637 6 52 | Only in VII.1 |
| | | | | 9637 6 53 | Only in VII.1 |
| | | | | 9637 6 54 | Only in VII.1 |
| | | | | 9637 6 55 | Only in VII.1 |
| | | | | 9637 6 56 | Only in VII.1 |
| | | | | 9637 6 57 | Only in VII.1 |
| | | | | 9637 6 58 | Only in VII.1 |
| | | | | 9637 6 59 | Only in VII.1 |
| | | | | 9637 6 60 | Only in VII.1 |
| | | | | 9637 6 61 | Only in VII.1 |
| | | | | 9637 6 91 | Only in VII.1 |
| | | | | 9637 6102 | Only in VII.1 |
| ----- | | | | | |
| 96-Cm-245 | | | | | |
| ***** | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 229640 1452 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 179640 1452 | |
| ----- | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 179640 1455 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 49640 1455 | |
| ----- | | | | | |
| | | | | 9640 1458 | Only in VII.1 |
| 3.500000+0 9.520000-1 | 0 | 0 | 1 | 09640 2151 | |
| 3.500000+0 9.520440-1 | 0 | 0 | 1 | 09640 2151 | |

| | | | | | | | | |
|------------------------|------------|---|---|---|---------|---|----|---------------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1299640 | 3 | 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 789640 | 3 | 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1199640 | 3 | 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 789640 | 3 | 2 | |
| 0.000000+0-5.481000+4 | | 0 | 0 | 1 | 769640 | 3 | 4 | |
| 0.000000+0-5.473000+4 | | 0 | 0 | 1 | 629640 | 3 | 4 | |
| -5.520260+6-5.520260+6 | | 0 | 0 | 1 | 299640 | 3 | 16 | |
| -5.520000+6-5.520000+6 | | 0 | 0 | 1 | 189640 | 3 | 16 | |
| -1.232150+7-1.232150+7 | | 0 | 0 | 1 | 159640 | 3 | 17 | |
| -1.232000+7-1.232000+7 | | 0 | 0 | 1 | 109640 | 3 | 17 | |
| 2.052180+8 | 2.052180+8 | 0 | 0 | 2 | 1229640 | 3 | 18 | |
| 2.000000+8 | 2.000000+8 | 0 | 0 | 1 | 489640 | 3 | 18 | |
| | | | | | 9640 | 3 | 19 | Only in VII.1 |
| | | | | | 9640 | 3 | 20 | Only in VII.1 |
| | | | | | 9640 | 3 | 21 | Only in VII.1 |
| | | | | | 9640 | 3 | 37 | Only in VII.1 |
| | | | | | 9640 | 3 | 38 | Only in VII.1 |
| 0.000000+0-5.481000+4 | | 0 | 0 | 1 | 749640 | 3 | 51 | |
| 0.000000+0-5.473000+4 | | 0 | 0 | 1 | 629640 | 3 | 51 | |
| 0.000000+0-1.216000+5 | | 0 | 0 | 1 | 719640 | 3 | 52 | |
| 0.000000+0-1.214000+5 | | 0 | 0 | 1 | 589640 | 3 | 52 | |
| 0.000000+0-1.974000+5 | | 0 | 0 | 1 | 689640 | 3 | 53 | |
| 0.000000+0-1.971000+5 | | 0 | 0 | 1 | 569640 | 3 | 53 | |
| 0.000000+0-2.528000+5 | | 0 | 0 | 1 | 669640 | 3 | 54 | |
| 0.000000+0-2.528500+5 | | 0 | 0 | 1 | 369640 | 3 | 54 | |
| 0.000000+0-2.957200+5 | | 0 | 0 | 1 | 659640 | 3 | 55 | |
| 0.000000+0-2.923000+5 | | 0 | 0 | 1 | 529640 | 3 | 55 | |
| 0.000000+0-3.506400+5 | | 0 | 0 | 1 | 639640 | 3 | 56 | |
| 0.000000+0-2.958400+5 | | 0 | 0 | 1 | 349640 | 3 | 56 | |
| 0.000000+0-3.559000+5 | | 0 | 0 | 1 | 629640 | 3 | 57 | |
| 0.000000+0-3.505000+5 | | 0 | 0 | 1 | 319640 | 3 | 57 | |
| 0.000000+0-3.614000+5 | | 0 | 0 | 1 | 619640 | 3 | 58 | |
| 0.000000+0-3.559500+5 | | 0 | 0 | 1 | 309640 | 3 | 58 | |
| 0.000000+0-3.881800+5 | | 0 | 0 | 1 | 609640 | 3 | 59 | |
| 0.000000+0-3.615000+5 | | 0 | 0 | 1 | 299640 | 3 | 59 | |
| 0.000000+0-4.166000+5 | | 0 | 0 | 1 | 589640 | 3 | 60 | |
| 0.000000+0-3.879500+5 | | 0 | 0 | 1 | 289640 | 3 | 60 | |
| 0.000000+0-4.187000+5 | | 0 | 0 | 1 | 579640 | 3 | 61 | |
| 0.000000+0-3.957000+5 | | 0 | 0 | 1 | 449640 | 3 | 61 | |
| 0.000000+0-4.310000+5 | | 0 | 0 | 1 | 569640 | 3 | 62 | |
| 0.000000+0-4.170000+5 | | 0 | 0 | 1 | 259640 | 3 | 62 | |
| 0.000000+0-4.428400+5 | | 0 | 0 | 1 | 559640 | 3 | 63 | |
| 0.000000+0-4.188000+5 | | 0 | 0 | 1 | 249640 | 3 | 63 | |
| 0.000000+0-4.980000+5 | | 0 | 0 | 1 | 539640 | 3 | 64 | |
| 0.000000+0-4.310000+5 | | 0 | 0 | 1 | 239640 | 3 | 64 | |
| 0.000000+0-5.090000+5 | | 0 | 0 | 1 | 529640 | 3 | 65 | |
| 0.000000+0-4.428000+5 | | 0 | 0 | 1 | 229640 | 3 | 65 | |
| 0.000000+0-5.320000+5 | | 0 | 0 | 1 | 519640 | 3 | 66 | |
| 0.000000+0-4.980000+5 | | 0 | 0 | 1 | 199640 | 3 | 66 | |
| 0.000000+0-5.450000+5 | | 0 | 0 | 1 | 509640 | 3 | 67 | |
| 0.000000+0-5.087000+5 | | 0 | 0 | 1 | 189640 | 3 | 67 | |

| | | | | | | | |
|-----------------------|------------|------------|------------|---|-------------|------|----------|
| | | | | | 9640 3 68 | Only | in VII.1 |
| | | | | | 9640 3 69 | Only | in VII.1 |
| | | | | | 9640 3 70 | Only | in VII.1 |
| 0.000000+0-1.115070+5 | | 0 | 0 | 1 | 729640 3 91 | | |
| 0.000000+0-5.110000+5 | | 0 | 0 | 1 | 349640 3 91 | | |
| 6.457580+6 | 6.457580+6 | 0 | 0 | 2 | 919640 3102 | | |
| 6.450000+6 | 6.450000+6 | 0 | 0 | 2 | 699640 3102 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 899640 4 2 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 219640 4 2 | | |
| | | | | | 9640 4 16 | Only | in VII.0 |
| | | | | | 9640 4 17 | Only | in VII.0 |
| | | | | | 9640 4 51 | Only | in VII.0 |
| | | | | | 9640 4 52 | Only | in VII.0 |
| | | | | | 9640 4 53 | Only | in VII.0 |
| | | | | | 9640 4 54 | Only | in VII.0 |
| | | | | | 9640 4 55 | Only | in VII.0 |
| | | | | | 9640 4 56 | Only | in VII.0 |
| | | | | | 9640 4 57 | Only | in VII.0 |
| | | | | | 9640 4 58 | Only | in VII.0 |
| | | | | | 9640 4 59 | Only | in VII.0 |
| | | | | | 9640 4 60 | Only | in VII.0 |
| | | | | | 9640 4 61 | Only | in VII.0 |
| | | | | | 9640 4 62 | Only | in VII.0 |
| | | | | | 9640 4 63 | Only | in VII.0 |
| | | | | | 9640 4 64 | Only | in VII.0 |
| | | | | | 9640 4 65 | Only | in VII.0 |
| | | | | | 9640 4 66 | Only | in VII.0 |
| | | | | | 9640 4 67 | Only | in VII.0 |
| | | | | | 9640 4 91 | Only | in VII.0 |
| | | | | | 9640 5 16 | Only | in VII.0 |
| | | | | | 9640 5 17 | Only | in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 209640 5 18 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 149640 5 18 | | |
| | | | | | 9640 5 91 | Only | in VII.0 |
| 1.000000-5 | 2.216223-2 | 2.000000+7 | 2.216223-2 | | 9640 5455 | | |
| 1.000000-5 | 2.216220-2 | 2.000000+7 | 2.216220-2 | | 9640 5455 | | |
| | | | | | 9640 6 16 | Only | in VII.1 |
| | | | | | 9640 6 17 | Only | in VII.1 |
| | | | | | 9640 6 37 | Only | in VII.1 |
| | | | | | 9640 6 51 | Only | in VII.1 |
| | | | | | 9640 6 52 | Only | in VII.1 |
| | | | | | 9640 6 53 | Only | in VII.1 |
| | | | | | 9640 6 54 | Only | in VII.1 |
| | | | | | 9640 6 55 | Only | in VII.1 |
| | | | | | 9640 6 56 | Only | in VII.1 |
| | | | | | 9640 6 57 | Only | in VII.1 |
| | | | | | 9640 6 58 | Only | in VII.1 |
| | | | | | 9640 6 59 | Only | in VII.1 |
| | | | | | 9640 6 60 | Only | in VII.1 |
| | | | | | 9640 6 61 | Only | in VII.1 |
| | | | | | 9640 6 62 | Only | in VII.1 |
| | | | | | 9640 6 63 | Only | in VII.1 |
| | | | | | 9640 6 64 | Only | in VII.1 |
| | | | | | 9640 6 65 | Only | in VII.1 |
| | | | | | 9640 6 66 | Only | in VII.1 |
| | | | | | 9640 6 67 | Only | in VII.1 |
| | | | | | 9640 6 68 | Only | in VII.1 |
| | | | | | 9640 6 69 | Only | in VII.1 |
| | | | | | 9640 6 70 | Only | in VII.1 |
| | | | | | 9640 6 91 | Only | in VII.1 |
| | | | | | 9640 6102 | Only | in VII.1 |
| 96-Cm-246 | | | | | | | |
| ***** | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49643 1452 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 159643 1452 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 09643 1455 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 6 | 09643 1455 | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49643 1456 | | |

| | | | | | | | |
|-------------|-------------|---|---|---|---------|------|-------------------------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 159643 | 1456 | |
| | | | | | | | 9643 1458 Only in VII.1 |
| 0.000000+0 | 9.040000-1 | 0 | 0 | 1 | 09643 | 2151 | |
| 0.000000+0 | 9.042820-1 | 0 | 0 | 1 | 09643 | 2151 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1719643 | 3 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 759643 | 3 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1279643 | 3 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 689643 | 3 2 | |
| 0.000000+0 | -4.285100+4 | 0 | 0 | 1 | 889643 | 3 4 | |
| 0.000000+0 | -4.285200+4 | 0 | 0 | 1 | 669643 | 3 4 | |
| -6.457580+6 | -6.457580+6 | 0 | 0 | 1 | 279643 | 3 16 | |
| -6.458000+6 | -6.458000+6 | 0 | 0 | 1 | 179643 | 3 16 | |
| -1.197780+7 | -1.197780+7 | 0 | 0 | 1 | 159643 | 3 17 | |
| -1.197800+7 | -1.197800+7 | 0 | 0 | 1 | 109643 | 3 17 | |
| 2.105300+8 | 2.105300+8 | 0 | 0 | 1 | 1659643 | 3 18 | |
| 2.000000+8 | 2.000000+8 | 0 | 0 | 2 | 759643 | 3 18 | |
| 2.105300+8 | 2.105300+8 | 0 | 0 | 1 | 1569643 | 3 19 | |
| 2.000000+8 | 2.000000+8 | 0 | 0 | 2 | 759643 | 3 19 | |
| 2.105300+8 | 2.105300+8 | 0 | 0 | 1 | 519643 | 3 20 | |
| 2.000000+8 | 2.000000+8 | 0 | 0 | 1 | 199643 | 3 20 | |
| 2.105300+8 | 2.105300+8 | 0 | 0 | 1 | 239643 | 3 21 | |
| 2.000000+8 | 2.000000+8 | 0 | 0 | 1 | 129643 | 3 21 | |
| | | | | | | | 9643 3 38 Only in VII.1 |
| 0.000000+0 | -4.285100+4 | 0 | 0 | 1 | 859643 | 3 51 | |
| 0.000000+0 | -4.285200+4 | 0 | 0 | 1 | 669643 | 3 51 | |
| 0.000000+0 | -1.420100+5 | 0 | 0 | 1 | 809643 | 3 52 | |
| 0.000000+0 | -1.420100+5 | 0 | 0 | 1 | 599643 | 3 52 | |
| 0.000000+0 | -2.949000+5 | 0 | 0 | 1 | 779643 | 3 53 | |
| 0.000000+0 | -2.949000+5 | 0 | 0 | 1 | 579643 | 3 53 | |
| 0.000000+0 | -4.998000+5 | 0 | 0 | 1 | 739643 | 3 54 | |
| 0.000000+0 | -5.004000+5 | 0 | 0 | 1 | 539643 | 3 54 | |
| 0.000000+0 | -8.416800+5 | 0 | 0 | 1 | 699643 | 3 55 | |
| 0.000000+0 | -7.820700+5 | 0 | 0 | 1 | 349643 | 3 55 | |
| 0.000000+0 | -8.764500+5 | 0 | 0 | 1 | 689643 | 3 56 | |
| 0.000000+0 | -8.416700+5 | 0 | 0 | 1 | 329643 | 3 56 | |
| 0.000000+0 | -9.233100+5 | 0 | 0 | 1 | 669643 | 3 57 | |
| 0.000000+0 | -8.764300+5 | 0 | 0 | 1 | 319643 | 3 57 | |
| 0.000000+0 | -9.810000+5 | 0 | 0 | 1 | 659643 | 3 58 | |
| 0.000000+0 | -9.233100+5 | 0 | 0 | 1 | 299643 | 3 58 | |
| 0.000000+0 | -1.051100+6 | 0 | 0 | 1 | 639643 | 3 59 | |
| 0.000000+0 | -9.800000+5 | 0 | 0 | 1 | 289643 | 3 59 | |
| 0.000000+0 | -1.059000+6 | 0 | 0 | 1 | 629643 | 3 60 | |
| 0.000000+0 | -1.051700+6 | 0 | 0 | 1 | 269643 | 3 60 | |
| 0.000000+0 | -1.078850+6 | 0 | 0 | 1 | 619643 | 3 61 | |
| 0.000000+0 | -1.078850+6 | 0 | 0 | 1 | 259643 | 3 61 | |
| 0.000000+0 | -1.104860+6 | 0 | 0 | 1 | 609643 | 3 62 | |
| 0.000000+0 | -1.104850+6 | 0 | 0 | 1 | 249643 | 3 62 | |
| 0.000000+0 | -1.124280+6 | 0 | 0 | 1 | 599643 | 3 63 | |
| 0.000000+0 | -1.124270+6 | 0 | 0 | 1 | 239643 | 3 63 | |
| 0.000000+0 | -1.128020+6 | 0 | 0 | 1 | 589643 | 3 64 | |
| 0.000000+0 | -1.128020+6 | 0 | 0 | 1 | 229643 | 3 64 | |

| | | | | | |
|------------------------|---|---|---|-------------|---------------|
| ----- | | | | | |
| 0.000000+0-1.128800+6 | 0 | 0 | 1 | 579643 3 65 | |
| 0.000000+0-1.129400+6 | 0 | 0 | 1 | 219643 3 65 | |
| ----- | | | | | |
| 0.000000+0-1.165490+6 | 0 | 0 | 1 | 569643 3 66 | |
| 0.000000+0-1.165490+6 | 0 | 0 | 1 | 209643 3 66 | |
| ----- | | | | | |
| 0.000000+0-1.174740+6 | 0 | 0 | 1 | 559643 3 67 | |
| 0.000000+0-1.174740+6 | 0 | 0 | 1 | 199643 3 67 | |
| ----- | | | | | |
| 0.000000+0-1.178600+6 | 0 | 0 | 1 | 549643 3 68 | |
| 0.000000+0-1.179200+6 | 0 | 0 | 1 | 189643 3 68 | |
| ----- | | | | | |
| 0.000000+0-1.210530+6 | 0 | 0 | 1 | 539643 3 69 | |
| 0.000000+0-1.195900+6 | 0 | 0 | 1 | 169643 3 69 | |
| ----- | | | | | |
| 0.000000+0-1.219980+6 | 0 | 0 | 1 | 529643 3 70 | |
| 0.000000+0-1.210530+6 | 0 | 0 | 1 | 159643 3 70 | |
| ----- | | | | | |
| | | | | 9643 3 71 | Only in VII.1 |
| | | | | 9643 3 72 | Only in VII.1 |
| | | | | 9643 3 73 | Only in VII.1 |
| | | | | 9643 3 74 | Only in VII.1 |
| | | | | 9643 3 75 | Only in VII.1 |
| | | | | 9643 3 76 | Only in VII.1 |
| | | | | 9643 3 77 | Only in VII.1 |
| | | | | 9643 3 78 | Only in VII.1 |
| | | | | 9643 3 79 | Only in VII.1 |
| | | | | 9643 3 80 | Only in VII.1 |
| 0.000000+0-1.145310+5 | 0 | 0 | 1 | 829643 3 91 | |
| 0.000000+0-1.220000+6 | 0 | 0 | 1 | 309643 3 91 | |
| ----- | | | | | |
| 5.155860+6 5.155860+6 | 0 | 0 | 2 | 999643 3102 | |
| 5.160000+6 5.160000+6 | 0 | 0 | 1 | 529643 3102 | |
| ----- | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 999643 4 2 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 219643 4 2 | |
| ----- | | | | | |
| | | | | 9643 4 16 | Only in VII.0 |
| | | | | 9643 4 17 | Only in VII.0 |
| | | | | 9643 4 19 | Only in VII.0 |
| | | | | 9643 4 20 | Only in VII.0 |
| | | | | 9643 4 21 | Only in VII.0 |
| | | | | 9643 4 51 | Only in VII.0 |
| | | | | 9643 4 52 | Only in VII.0 |
| | | | | 9643 4 53 | Only in VII.0 |
| | | | | 9643 4 54 | Only in VII.0 |
| | | | | 9643 4 55 | Only in VII.0 |
| | | | | 9643 4 56 | Only in VII.0 |
| | | | | 9643 4 57 | Only in VII.0 |
| | | | | 9643 4 58 | Only in VII.0 |
| | | | | 9643 4 59 | Only in VII.0 |
| | | | | 9643 4 60 | Only in VII.0 |
| | | | | 9643 4 61 | Only in VII.0 |
| | | | | 9643 4 62 | Only in VII.0 |
| | | | | 9643 4 63 | Only in VII.0 |
| | | | | 9643 4 64 | Only in VII.0 |
| | | | | 9643 4 65 | Only in VII.0 |
| | | | | 9643 4 66 | Only in VII.0 |
| | | | | 9643 4 67 | Only in VII.0 |
| | | | | 9643 4 68 | Only in VII.0 |
| | | | | 9643 4 69 | Only in VII.0 |
| | | | | 9643 4 70 | Only in VII.0 |
| | | | | 9643 4 91 | Only in VII.0 |
| | | | | 9643 5 16 | Only in VII.0 |
| | | | | 9643 5 17 | Only in VII.0 |
| 0.000000+0 0.000000+0 | 0 | 1 | 1 | 29643 5 18 | |
| -2.000000+7 0.000000+0 | 0 | 1 | 1 | 29643 5 18 | |
| ----- | | | | | |
| | | | | 9643 5 19 | Only in VII.0 |
| | | | | 9643 5 20 | Only in VII.0 |
| | | | | 9643 5 21 | Only in VII.0 |
| | | | | 9643 5 91 | Only in VII.0 |
| | | | | 9643 6 16 | Only in VII.1 |
| | | | | 9643 6 17 | Only in VII.1 |

9643 6 51 Only in VII.1
 9643 6 52 Only in VII.1
 9643 6 53 Only in VII.1
 9643 6 54 Only in VII.1
 9643 6 55 Only in VII.1
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 9643 6 62 Only in VII.1
 9643 6 63 Only in VII.1
 9643 6 64 Only in VII.1
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 9643 6 66 Only in VII.1
 9643 6 67 Only in VII.1
 9643 6 68 Only in VII.1
 9643 6 69 Only in VII.1
 9643 6 70 Only in VII.1
 9643 6 71 Only in VII.1
 9643 6 72 Only in VII.1
 9643 6 73 Only in VII.1
 9643 6 74 Only in VII.1
 9643 6 75 Only in VII.1
 9643 6 76 Only in VII.1
 9643 6 77 Only in VII.1
 9643 6 78 Only in VII.1
 9643 6 79 Only in VII.1
 9643 6 80 Only in VII.1
 9643 6 91 Only in VII.1
 9643 6102 Only in VII.1

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| | | | | | | |
|------------|------------|---|---|---|-------|------|
| 1.000000-5 | 6.000000+1 | 1 | 2 | 0 | 09646 | 2151 |
| 1.000000-5 | 6.000000+1 | 1 | 1 | 0 | 09646 | 2151 |

| | | | | | | |
|------------|------------|---|---|---|---------|-----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1709646 | 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 939646 | 3 1 |

| | | | | | | |
|------------|------------|---|---|---|---------|-----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1279646 | 3 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 939646 | 3 2 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|-----|
| 0.000000+0-6.167000+4 | | 0 | 0 | 1 | 839646 | 3 4 |
| 0.000000+0-6.150000+4 | | 0 | 0 | 1 | 479646 | 3 4 |

| | | | | | | |
|------------------------|--|---|---|---|--------|------|
| -5.155860+6-5.155860+6 | | 0 | 0 | 1 | 309646 | 3 16 |
| -5.156400+6-5.156400+6 | | 0 | 0 | 1 | 289646 | 3 16 |

| | | | | | | |
|------------------------|--|---|---|---|--------|------|
| -1.161340+7-1.161340+7 | | 0 | 0 | 1 | 169646 | 3 17 |
| -1.160000+7-1.160000+7 | | 0 | 0 | 1 | 179646 | 3 17 |

| | | | | | | |
|------------|------------|---|---|---|---------|------|
| 2.102440+8 | 2.102440+8 | 0 | 0 | 2 | 1439646 | 3 18 |
| 2.000000+8 | 2.000000+8 | 0 | 0 | 2 | 479646 | 3 18 |

9646 3 19 Only in VII.1
 9646 3 20 Only in VII.1
 9646 3 21 Only in VII.1
 9646 3 37 Only in VII.1
 9646 3 38 Only in VII.1

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-6.167000+4 | | 0 | 0 | 1 | 799646 | 3 51 |
| 0.000000+0-6.150000+4 | | 0 | 0 | 1 | 479646 | 3 51 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-1.346500+5 | | 0 | 0 | 1 | 759646 | 3 52 |
| 0.000000+0-1.350000+5 | | 0 | 0 | 1 | 449646 | 3 52 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-2.190000+5 | | 0 | 0 | 1 | 729646 | 3 53 |
| 0.000000+0-2.170000+5 | | 0 | 0 | 1 | 419646 | 3 53 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-2.273800+5 | | 0 | 0 | 1 | 719646 | 3 54 |
| 0.000000+0-2.270000+5 | | 0 | 0 | 1 | 299646 | 3 54 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-2.658600+5 | | 0 | 0 | 1 | 709646 | 3 55 |
| 0.000000+0-2.660000+5 | | 0 | 0 | 1 | 279646 | 3 55 |

| | | | | | | | | | | | | |
|-----------------------|------------|---|---|--------|--------|------|------|---|----|------|----|-------|
| 0.000000+0-2.854100+5 | 0 | 0 | 1 | 699646 | 3 | 56 | | | | | | |
| 0.000000+0-2.850000+5 | 0 | 0 | 1 | 269646 | 3 | 56 | | | | | | |
| | | | | | | | 9646 | 3 | 57 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 58 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 59 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 60 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 61 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 62 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 63 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 64 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 65 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 66 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 67 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 68 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 69 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 70 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 71 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 72 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 73 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 74 | Only | in | VII.1 |
| | | | | | | | 9646 | 3 | 75 | Only | in | VII.1 |
| 0.000000+0-1.145320+5 | 0 | 0 | 1 | 779646 | 3 | 91 | | | | | | |
| 0.000000+0-3.090000+5 | 0 | 0 | 1 | 209646 | 3 | 91 | | | | | | |
| | | | | | | | | | | | | |
| 6.213020+6 | 6.213020+6 | 0 | 0 | 2 | 989646 | 3102 | | | | | | |
| 6.211430+6 | 6.211430+6 | 0 | 0 | 2 | 519646 | 3102 | | | | | | |
| | | | | | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 969646 | 4 | 2 | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 599646 | 4 | 2 | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | 9646 | 4 | 16 | Only | in | VII.0 |
| | | | | | | | 9646 | 4 | 17 | Only | in | VII.0 |
| | | | | | | | 9646 | 4 | 51 | Only | in | VII.0 |
| | | | | | | | 9646 | 4 | 52 | Only | in | VII.0 |
| | | | | | | | 9646 | 4 | 53 | Only | in | VII.0 |
| | | | | | | | 9646 | 4 | 54 | Only | in | VII.0 |
| | | | | | | | 9646 | 4 | 55 | Only | in | VII.0 |
| | | | | | | | 9646 | 4 | 56 | Only | in | VII.0 |
| | | | | | | | 9646 | 4 | 91 | Only | in | VII.0 |
| | | | | | | | 9646 | 5 | 16 | Only | in | VII.0 |
| | | | | | | | 9646 | 5 | 17 | Only | in | VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29646 | 5 | 18 | | | | | |
| -2.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29646 | 5 | 18 | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | 9646 | 5 | 91 | Only | in | VII.0 |
| | | | | | | | 9646 | 6 | 16 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 17 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 37 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 51 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 52 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 53 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 54 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 55 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 56 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 57 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 58 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 59 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 60 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 61 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 62 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 63 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 64 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 65 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 66 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 67 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 68 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 69 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 70 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 71 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 72 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 73 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 74 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 75 | Only | in | VII.1 |
| | | | | | | | 9646 | 6 | 91 | Only | in | VII.1 |

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*****
0.000000+0 0.000000+0      0      0      1      49649 1452
0.000000+0 0.000000+0      0      0      2      09649 1452
-----
                                9649 1455 Only in VII.1
                                9649 1456 Only in VII.1
1.835470+8 0.000000+0 5.921000+6 0.000000+0 8.000000+3 0.000000+0 09649 1458
1.836500+8 2.960500+6 5.200000+6 4.160000+5 5.000000+2 5.000000+2 29649 1458
-----
1.000000-5 1.500000+3      1      2      0      09649 2151
1.000000-5 2.400000+3      1      1      0      09649 2151
-----
0.000000+0 0.000000+0      0      0      2      1209649 3 1
0.000000+0 0.000000+0      0      0      1      849649 3 1
-----
0.000000+0 0.000000+0      0      0      2      1209649 3 2
0.000000+0 0.000000+0      0      0      1      349649 3 2
-----
0.000000+0-4.340000+4      0      0      1      729649 3 4
0.000000+0-4.282600+4      0      0      1      639649 3 4
-----
-6.213020+6-6.213020+6      0      0      1      289649 3 16
-6.184900+6-6.184900+6      0      0      1      129649 3 16
-----
-1.136890+7-1.136890+7      0      0      1      179649 3 17
-1.136400+7-1.136400+7      0      0      1      69649 3 17
-----
2.120060+8 2.120060+8      0      0      2      1129649 3 18
2.087400+8 2.087400+8      0      0      1      359649 3 18
-----
2.120060+8 2.120060+8      0      0      2      909649 3 19
2.087400+8 2.087400+8      0      0      1      329649 3 19
-----
2.120060+8 2.120060+8      0      0      1      559649 3 20
2.087400+8 2.087400+8      0      0      1      59649 3 20
-----
                                9649 3 21 Only in VII.1
-1.782650+7-1.782650+7      0      0      1      39649 3 37
-1.782000+7-1.782000+7      0      0      1      29649 3 37
-----
                                9649 3 38 Only in VII.1
0.000000+0-4.340000+4      0      0      1      699649 3 51
0.000000+0-4.282600+4      0      0      1      329649 3 51
-----
0.000000+0-1.436000+5      0      0      1      649649 3 52
0.000000+0-1.434200+5      0      0      1      339649 3 52
-----
0.000000+0-2.981000+5      0      0      1      619649 3 53
0.000000+0-3.017700+5      0      0      1      249649 3 53
-----
0.000000+0-5.050000+5      0      0      1      579649 3 54
0.000000+0-1.043800+6      0      0      1      259649 3 54
-----
0.000000+0-7.607000+5      0      0      1      549649 3 55
0.000000+0-1.052700+6      0      0      1      219649 3 55
-----
0.000000+0-1.049000+6      0      0      1      509649 3 56
0.000000+0-1.087600+6      0      0      1      159649 3 56
-----
0.000000+0-1.049000+6      0      0      1      509649 3 57
0.000000+0-1.087610+6      0      0      1      159649 3 57
-----
                                9649 3 58 Only in VII.1
                                9649 3 59 Only in VII.1
                                9649 3 60 Only in VII.1
                                9649 3 61 Only in VII.1
                                9649 3 62 Only in VII.1
                                9649 3 63 Only in VII.1
                                9649 3 64 Only in VII.1
                                9649 3 65 Only in VII.1
0.000000+0-1.145340+5      0      0      1      669649 3 91
0.000000+0-1.087620+6      0      0      1      119649 3 91
-----

```

| | | | | | | | |
|------------------------|------------|---|---|---|---------|------|------------------|
| 4.713370+6 | 4.713370+6 | 0 | 0 | 2 | 809649 | 3102 | |
| 4.713000+6 | 4.713000+6 | 0 | 0 | 1 | 389649 | 3102 | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 849649 | 4 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 239649 | 4 | 2 |
| ----- | | | | | | | |
| | | | | | 9649 | 4 | 16 Only in VII.0 |
| | | | | | 9649 | 4 | 17 Only in VII.0 |
| | | | | | 9649 | 4 | 19 Only in VII.0 |
| | | | | | 9649 | 4 | 20 Only in VII.0 |
| | | | | | 9649 | 4 | 37 Only in VII.0 |
| | | | | | 9649 | 4 | 51 Only in VII.0 |
| | | | | | 9649 | 4 | 52 Only in VII.0 |
| | | | | | 9649 | 4 | 53 Only in VII.0 |
| | | | | | 9649 | 4 | 54 Only in VII.0 |
| | | | | | 9649 | 4 | 55 Only in VII.0 |
| | | | | | 9649 | 4 | 56 Only in VII.0 |
| | | | | | 9649 | 4 | 57 Only in VII.0 |
| | | | | | 9649 | 4 | 91 Only in VII.0 |
| | | | | | 9649 | 5 | 16 Only in VII.0 |
| | | | | | 9649 | 5 | 17 Only in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29649 | 5 | 18 |
| -3.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29649 | 5 | 18 |
| ----- | | | | | | | |
| | | | | | 9649 | 5 | 19 Only in VII.0 |
| | | | | | 9649 | 5 | 20 Only in VII.0 |
| | | | | | 9649 | 5 | 37 Only in VII.0 |
| | | | | | 9649 | 5 | 91 Only in VII.0 |
| | | | | | 9649 | 6 | 16 Only in VII.1 |
| | | | | | 9649 | 6 | 17 Only in VII.1 |
| | | | | | 9649 | 6 | 37 Only in VII.1 |
| | | | | | 9649 | 6 | 51 Only in VII.1 |
| | | | | | 9649 | 6 | 52 Only in VII.1 |
| | | | | | 9649 | 6 | 53 Only in VII.1 |
| | | | | | 9649 | 6 | 54 Only in VII.1 |
| | | | | | 9649 | 6 | 55 Only in VII.1 |
| | | | | | 9649 | 6 | 56 Only in VII.1 |
| | | | | | 9649 | 6 | 57 Only in VII.1 |
| | | | | | 9649 | 6 | 58 Only in VII.1 |
| | | | | | 9649 | 6 | 59 Only in VII.1 |
| | | | | | 9649 | 6 | 60 Only in VII.1 |
| | | | | | 9649 | 6 | 61 Only in VII.1 |
| | | | | | 9649 | 6 | 62 Only in VII.1 |
| | | | | | 9649 | 6 | 63 Only in VII.1 |
| | | | | | 9649 | 6 | 64 Only in VII.1 |
| | | | | | 9649 | 6 | 65 Only in VII.1 |
| | | | | | 9649 | 6 | 91 Only in VII.1 |
| | | | | | 9649 | 6102 | Only in VII.1 |
| 96-Cm-249 | | | | | | | |
| ***** | | | | | | | |
| 9.624900+4 | 1.000000+0 | 0 | 0 | 1 | 09652 | 2151 | |
| 9.624900+4 | 1.000000+0 | 0 | 1 | 2 | 09652 | 2151 | |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1179652 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 999652 | 3 | 1 |
| ----- | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1089652 | 3 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 999652 | 3 | 2 |
| ----- | | | | | | | |
| 0.000000+0-2.622800+4 | | 0 | 0 | 1 | 819652 | 3 | 4 |
| 0.000000+0-2.623400+4 | | 0 | 0 | 1 | 659652 | 3 | 4 |
| ----- | | | | | | | |
| -4.713370+6-4.713370+6 | | 0 | 0 | 1 | 329652 | 3 | 16 |
| -4.713400+6-4.713400+6 | | 0 | 0 | 1 | 309652 | 3 | 16 |
| ----- | | | | | | | |
| -1.092640+7-1.092640+7 | | 0 | 0 | 1 | 199652 | 3 | 17 |
| -1.092480+7-1.092480+7 | | 0 | 0 | 1 | 189652 | 3 | 17 |
| ----- | | | | | | | |
| 2.130000+8 | 2.130000+8 | 0 | 0 | 1 | 1019652 | 3 | 18 |
| 2.000000+8 | 2.000000+8 | 0 | 0 | 2 | 459652 | 3 | 18 |
| ----- | | | | | | | |
| | | | | | 9652 | 3 | 19 Only in VII.1 |
| | | | | | 9652 | 3 | 20 Only in VII.1 |
| | | | | | 9652 | 3 | 21 Only in VII.1 |
| | | | | | 9652 | 3 | 37 Only in VII.1 |

| | | | | | |
|-----------------------|---|---|---|--------------|---------------|
| 0.000000+0-2.622800+4 | 0 | 0 | 1 | 9652 3 38 | Only in VII.1 |
| 0.000000+0-2.623400+4 | 0 | 0 | 1 | 789652 3 51 | |
| | | | | 629652 3 51 | |
| 0.000000+0-4.820300+4 | 0 | 0 | 1 | 769652 3 52 | |
| 0.000000+0-4.820300+4 | 0 | 0 | 1 | 609652 3 52 | |
| 0.000000+0-4.875800+4 | 0 | 0 | 1 | 759652 3 53 | |
| 0.000000+0-4.874300+4 | 0 | 0 | 1 | 599652 3 53 | |
| 0.000000+0-1.100000+5 | 0 | 0 | 1 | 719652 3 54 | |
| 0.000000+0-1.090000+5 | 0 | 0 | 1 | 589652 3 54 | |
| 0.000000+0-1.101540+5 | 0 | 0 | 1 | 709652 3 55 | |
| 0.000000+0-1.101600+5 | 0 | 0 | 1 | 439652 3 55 | |
| 0.000000+0-1.460000+5 | 0 | 0 | 1 | 679652 3 56 | |
| 0.000000+0-1.460000+5 | 0 | 0 | 1 | 429652 3 56 | |
| 0.000000+0-2.080010+5 | 0 | 0 | 1 | 649652 3 57 | |
| 0.000000+0-2.079900+5 | 0 | 0 | 1 | 399652 3 57 | |
| 0.000000+0-2.200000+5 | 0 | 0 | 1 | 639652 3 58 | |
| 0.000000+0-2.200000+5 | 0 | 0 | 1 | 389652 3 58 | |
| 0.000000+0-2.420080+5 | 0 | 0 | 1 | 629652 3 59 | |
| 0.000000+0-2.420100+5 | 0 | 0 | 1 | 379652 3 59 | |
| 0.000000+0-2.421700+5 | 0 | 0 | 1 | 619652 3 60 | |
| 0.000000+0-2.889900+5 | 0 | 0 | 1 | 359652 3 60 | |
| 0.000000+0-2.890060+5 | 0 | 0 | 1 | 599652 3 61 | |
| 0.000000+0-3.000000+5 | 0 | 0 | 1 | 339652 3 61 | |
| 0.000000+0-3.000000+5 | 0 | 0 | 1 | 579652 3 62 | |
| 0.000000+0-3.500000+5 | 0 | 0 | 1 | 329652 3 62 | |
| | | | | 9652 3 63 | Only in VII.0 |
| | | | | 9652 3 64 | Only in VII.0 |
| | | | | 9652 3 65 | Only in VII.0 |
| | | | | 9652 3 66 | Only in VII.0 |
| | | | | 9652 3 67 | Only in VII.0 |
| | | | | 9652 3 68 | Only in VII.0 |
| | | | | 9652 3 69 | Only in VII.0 |
| 0.000000+0-1.047980+5 | 0 | 0 | 1 | 729652 3 91 | |
| 0.000000+0-6.880000+5 | 0 | 0 | 1 | 189652 3 91 | |
| 5.832430+6 5.832430+6 | 0 | 0 | 1 | 1019652 3102 | |
| 5.832430+6 5.832430+6 | 0 | 0 | 2 | 669652 3102 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 1019652 4 2 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 639652 4 2 | |
| | | | | 9652 4 16 | Only in VII.0 |
| | | | | 9652 4 17 | Only in VII.0 |
| | | | | 9652 4 51 | Only in VII.0 |
| | | | | 9652 4 52 | Only in VII.0 |
| | | | | 9652 4 53 | Only in VII.0 |
| | | | | 9652 4 54 | Only in VII.0 |
| | | | | 9652 4 55 | Only in VII.0 |
| | | | | 9652 4 56 | Only in VII.0 |
| | | | | 9652 4 57 | Only in VII.0 |
| | | | | 9652 4 58 | Only in VII.0 |
| | | | | 9652 4 59 | Only in VII.0 |
| | | | | 9652 4 60 | Only in VII.0 |
| | | | | 9652 4 61 | Only in VII.0 |
| | | | | 9652 4 62 | Only in VII.0 |
| | | | | 9652 4 63 | Only in VII.0 |
| | | | | 9652 4 64 | Only in VII.0 |
| | | | | 9652 4 65 | Only in VII.0 |
| | | | | 9652 4 66 | Only in VII.0 |
| | | | | 9652 4 67 | Only in VII.0 |
| | | | | 9652 4 68 | Only in VII.0 |
| | | | | 9652 4 69 | Only in VII.0 |
| | | | | 9652 4 91 | Only in VII.0 |

| | | | | | | |
|-------------|------------|---|---|---|------------|---------------|
| | | | | | 9652 5 16 | Only in VII.0 |
| | | | | | 9652 5 17 | Only in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29652 5 18 | |
| -2.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29652 5 18 | |

| | |
|-----------|---------------|
| 9652 5 91 | Only in VII.0 |
| 9652 6 16 | Only in VII.1 |
| 9652 6 17 | Only in VII.1 |
| 9652 6 37 | Only in VII.1 |
| 9652 6 51 | Only in VII.1 |
| 9652 6 52 | Only in VII.1 |
| 9652 6 53 | Only in VII.1 |
| 9652 6 54 | Only in VII.1 |
| 9652 6 55 | Only in VII.1 |
| 9652 6 56 | Only in VII.1 |
| 9652 6 57 | Only in VII.1 |
| 9652 6 58 | Only in VII.1 |
| 9652 6 59 | Only in VII.1 |
| 9652 6 60 | Only in VII.1 |
| 9652 6 61 | Only in VII.1 |
| 9652 6 62 | Only in VII.1 |
| 9652 6 91 | Only in VII.1 |
| 9652 6102 | Only in VII.1 |

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| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----------|
| 1.000000-5 | 3.399900+0 | 2.530000-2 | 3.399900+0 | 5.000000+6 | 4.499900+0 | 9655 1452 |
| 1.000000-5 | 3.399940+0 | 2.530000-2 | 3.399940+0 | 5.000000+6 | 4.499900+0 | 9655 1452 |

| | | | | | |
|------------|------------|---|---|----|------------|
| 2.479300+2 | 0.000000+0 | 0 | 0 | 42 | 79655 2151 |
| 2.479300+2 | 0.000000+0 | 0 | 0 | 24 | 49655 2151 |

| | | | | | |
|------------|------------|---|---|---|------------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 849655 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 999655 3 1 |

| | | | | | |
|------------|------------|---|---|---|------------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 849655 3 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 949655 3 2 |

| | | | | |
|-----------------------|---|---|---|------------|
| 0.000000+0-4.300000+4 | 0 | 0 | 1 | 619655 3 4 |
| 0.000000+0-4.300000+4 | 0 | 0 | 1 | 439655 3 4 |

| | | | | |
|------------------------|---|---|---|-------------|
| -5.832430+6-5.832430+6 | 0 | 0 | 1 | 299655 3 16 |
| -5.829300+6-5.829300+6 | 0 | 0 | 1 | 289655 3 16 |

| | | | | |
|------------------------|---|---|---|-------------|
| -1.054580+7-1.054580+7 | 0 | 0 | 1 | 189655 3 17 |
| -1.054820+7-1.054820+7 | 0 | 0 | 1 | 199655 3 17 |

| | | | | |
|-----------------------|---|---|---|-------------|
| 2.130000+8 2.130000+8 | 0 | 0 | 2 | 769655 3 18 |
| 2.000000+8 2.000000+8 | 0 | 0 | 2 | 499655 3 18 |

| | |
|-----------|---------------|
| 9655 3 19 | Only in VII.1 |
| 9655 3 20 | Only in VII.1 |
| 9655 3 21 | Only in VII.1 |
| 9655 3 37 | Only in VII.1 |
| 9655 3 38 | Only in VII.1 |

| | | | | |
|-----------------------|---|---|---|-------------|
| 0.000000+0-4.300000+4 | 0 | 0 | 1 | 609655 3 51 |
| 0.000000+0-4.300000+4 | 0 | 0 | 1 | 439655 3 51 |

| | | | | |
|-----------------------|---|---|---|-------------|
| 0.000000+0-1.436000+5 | 0 | 0 | 1 | 559655 3 52 |
| 0.000000+0-1.420000+5 | 0 | 0 | 1 | 399655 3 52 |

| | |
|-----------|---------------|
| 9655 3 53 | Only in VII.1 |
| 9655 3 54 | Only in VII.1 |
| 9655 3 55 | Only in VII.1 |

| | | | | |
|-----------------------|---|---|---|-------------|
| 0.000000+0-1.145380+5 | 0 | 0 | 1 | 579655 3 91 |
| 0.000000+0-1.600000+5 | 0 | 0 | 1 | 219655 3 91 |

| | | | | |
|-----------------------|---|---|---|-------------|
| 4.412740+6 4.412740+6 | 0 | 0 | 2 | 769655 3102 |
| 4.406430+6 4.406430+6 | 0 | 0 | 2 | 579655 3102 |

| | | | | |
|-----------------------|---|---|---|------------|
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 749655 4 2 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 549655 4 2 |

| | |
|-----------|---------------|
| 9655 4 16 | Only in VII.0 |
| 9655 4 17 | Only in VII.0 |
| 9655 4 51 | Only in VII.0 |

| | | | | | | |
|------------------------|--------------------------|---|---|---|-------------|---------------|
| | | | | | 9655 4 52 | Only in VII.0 |
| | | | | | 9655 4 91 | Only in VII.0 |
| | | | | | 9655 5 16 | Only in VII.0 |
| | | | | | 9655 5 17 | Only in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29655 5 18 | |
| -2.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29655 5 18 | |
| ----- | | | | | | |
| | | | | | 9655 5 91 | Only in VII.0 |
| | | | | | 9655 6 16 | Only in VII.1 |
| | | | | | 9655 6 17 | Only in VII.1 |
| | | | | | 9655 6 37 | Only in VII.1 |
| | | | | | 9655 6 51 | Only in VII.1 |
| | | | | | 9655 6 52 | Only in VII.1 |
| | | | | | 9655 6 53 | Only in VII.1 |
| | | | | | 9655 6 54 | Only in VII.1 |
| | | | | | 9655 6 55 | Only in VII.1 |
| | | | | | 9655 6 91 | Only in VII.1 |
| | | | | | 9655 6102 | Only in VII.1 |
| | | | | | | |
| 97-Bk-245 | Evaluation Only in VII.1 | | | | | |
| ***** | | | | | | |
| 97-Bk-246 | Evaluation Only in VII.1 | | | | | |
| ***** | | | | | | |
| 97-Bk-247 | Evaluation Only in VII.1 | | | | | |
| ***** | | | | | | |
| 97-Bk-248 | Evaluation Only in VII.1 | | | | | |
| ***** | | | | | | |
| 97-Bk-249 | ***** | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49752 1452 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 129752 1452 | |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 29752 1456 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 129752 1456 | |
| ----- | | | | | | |
| 3.500000+0 | 7.738940-1 | 0 | 0 | 1 | 09752 2151 | |
| 3.500000+0 | 1.000000+0 | 0 | 0 | 1 | 09752 2151 | |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1029752 3 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 2999752 3 1 | |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 939752 3 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 639752 3 2 | |
| ----- | | | | | | |
| 0.000000+0-8.780000+3 | | 0 | 0 | 1 | 799752 3 4 | |
| 0.000000+0-8.810000+3 | | 0 | 0 | 1 | 2279752 3 4 | |
| ----- | | | | | | |
| -6.301700+6-6.301700+6 | | 0 | 0 | 1 | 299752 3 16 | |
| -6.213700+6-6.213700+6 | | 0 | 0 | 1 | 189752 3 16 | |
| ----- | | | | | | |
| -1.178360+7-1.178360+7 | | 0 | 0 | 1 | 179752 3 17 | |
| -1.177900+7-1.177900+7 | | 0 | 0 | 1 | 109752 3 17 | |
| ----- | | | | | | |
| 2.130000+8 2.130000+8 | | 0 | 0 | 2 | 939752 3 18 | |
| 2.000000+8 2.000000+8 | | 0 | 0 | 1 | 979752 3 18 | |
| ----- | | | | | | |
| | | | | | 9752 3 19 | Only in VII.1 |
| | | | | | 9752 3 20 | Only in VII.1 |
| | | | | | 9752 3 21 | Only in VII.1 |
| | | | | | 9752 3 37 | Only in VII.1 |
| | | | | | 9752 3 38 | Only in VII.1 |
| 0.000000+0-8.780000+3 | | 0 | 0 | 1 | 789752 3 51 | |
| 0.000000+0-8.810000+3 | | 0 | 0 | 1 | 899752 3 51 | |
| ----- | | | | | | |
| 0.000000+0-3.964000+4 | | 0 | 0 | 1 | 749752 3 52 | |
| 0.000000+0-3.964000+4 | | 0 | 0 | 1 | 829752 3 52 | |
| ----- | | | | | | |
| 0.000000+0-4.179000+4 | | 0 | 0 | 1 | 739752 3 53 | |
| 0.000000+0-4.179000+4 | | 0 | 0 | 1 | 859752 3 53 | |
| ----- | | | | | | |
| 0.000000+0-8.261000+4 | | 0 | 0 | 1 | 709752 3 54 | |
| 0.000000+0-8.261000+4 | | 0 | 0 | 1 | 749752 3 54 | |
| ----- | | | | | | |
| 0.000000+0-9.374000+4 | | 0 | 0 | 1 | 699752 3 55 | |
| 0.000000+0-9.374000+4 | | 0 | 0 | 1 | 819752 3 55 | |
| ----- | | | | | | |

| | | | | | | | | | |
|------------------------|---|---|---|--------------|------|----|-------|--|--|
| 0.000000+0-1.377300+5 | 0 | 0 | 1 | 669752 3 56 | | | | | |
| 0.000000+0-1.377100+5 | 0 | 0 | 1 | 719752 3 56 | | | | | |
| 0.000000+0-1.558300+5 | 0 | 0 | 1 | 649752 3 57 | | | | | |
| 0.000000+0-1.558400+5 | 0 | 0 | 1 | 729752 3 57 | | | | | |
| 0.000000+0-2.045700+5 | 0 | 0 | 1 | 619752 3 58 | | | | | |
| 0.000000+0-2.045500+5 | 0 | 0 | 1 | 679752 3 58 | | | | | |
| 0.000000+0-2.292500+5 | 0 | 0 | 1 | 609752 3 59 | | | | | |
| 0.000000+0-2.293600+5 | 0 | 0 | 1 | 719752 3 59 | | | | | |
| 0.000000+0-2.831500+5 | 0 | 0 | 1 | 589752 3 60 | | | | | |
| 0.000000+0-2.830000+5 | 0 | 0 | 1 | 669752 3 60 | | | | | |
| | | | | 9752 3 61 | Only | in | VII.0 | | |
| | | | | 9752 3 62 | Only | in | VII.0 | | |
| | | | | 9752 3 63 | Only | in | VII.0 | | |
| | | | | 9752 3 64 | Only | in | VII.0 | | |
| | | | | 9752 3 65 | Only | in | VII.0 | | |
| | | | | 9752 3 66 | Only | in | VII.0 | | |
| | | | | 9752 3 67 | Only | in | VII.0 | | |
| | | | | 9752 3 68 | Only | in | VII.0 | | |
| 0.000000+0-1.104450+5 | 0 | 0 | 1 | 689752 3 91 | | | | | |
| 0.000000+0-5.190000+5 | 0 | 0 | 1 | 529752 3 91 | | | | | |
| 4.969570+6 4.969570+6 | 0 | 0 | 2 | 939752 3102 | | | | | |
| 4.970000+6 4.970000+6 | 0 | 0 | 1 | 1239752 3102 | | | | | |
| | | | | 9752 3103 | Only | in | VII.0 | | |
| | | | | 9752 3107 | Only | in | VII.0 | | |
| 0.000000+0 2.469350+2 | 0 | 2 | 0 | 09752 4 2 | | | | | |
| 0.000000+0 2.469400+2 | 0 | 2 | 0 | 09752 4 2 | | | | | |
| | | | | 9752 4 16 | Only | in | VII.0 | | |
| | | | | 9752 4 17 | Only | in | VII.0 | | |
| 0.000000+0 2.469350+2 | 1 | 1 | 0 | 09752 4 18 | | | | | |
| 0.000000+0 2.469400+2 | 0 | 1 | 0 | 09752 4 18 | | | | | |
| | | | | 9752 4 51 | Only | in | VII.0 | | |
| | | | | 9752 4 52 | Only | in | VII.0 | | |
| | | | | 9752 4 53 | Only | in | VII.0 | | |
| | | | | 9752 4 54 | Only | in | VII.0 | | |
| | | | | 9752 4 55 | Only | in | VII.0 | | |
| | | | | 9752 4 56 | Only | in | VII.0 | | |
| | | | | 9752 4 57 | Only | in | VII.0 | | |
| | | | | 9752 4 58 | Only | in | VII.0 | | |
| | | | | 9752 4 59 | Only | in | VII.0 | | |
| | | | | 9752 4 60 | Only | in | VII.0 | | |
| | | | | 9752 4 61 | Only | in | VII.0 | | |
| | | | | 9752 4 62 | Only | in | VII.0 | | |
| | | | | 9752 4 63 | Only | in | VII.0 | | |
| | | | | 9752 4 64 | Only | in | VII.0 | | |
| | | | | 9752 4 65 | Only | in | VII.0 | | |
| | | | | 9752 4 66 | Only | in | VII.0 | | |
| | | | | 9752 4 67 | Only | in | VII.0 | | |
| | | | | 9752 4 68 | Only | in | VII.0 | | |
| | | | | 9752 4 91 | Only | in | VII.0 | | |
| | | | | 9752 5 16 | Only | in | VII.0 | | |
| | | | | 9752 5 17 | Only | in | VII.0 | | |
| 0.000000+0 0.000000+0 | 0 | 1 | 1 | 29752 5 18 | | | | | |
| -2.000000+7 0.000000+0 | 0 | 7 | 1 | 29752 5 18 | | | | | |
| | | | | 9752 5 91 | Only | in | VII.0 | | |
| | | | | 9752 6 16 | Only | in | VII.1 | | |
| | | | | 9752 6 17 | Only | in | VII.1 | | |
| | | | | 9752 6 37 | Only | in | VII.1 | | |
| | | | | 9752 6 51 | Only | in | VII.1 | | |
| | | | | 9752 6 52 | Only | in | VII.1 | | |
| | | | | 9752 6 53 | Only | in | VII.1 | | |
| | | | | 9752 6 54 | Only | in | VII.1 | | |
| | | | | 9752 6 55 | Only | in | VII.1 | | |
| | | | | 9752 6 56 | Only | in | VII.1 | | |
| | | | | 9752 6 57 | Only | in | VII.1 | | |
| | | | | 9752 6 58 | Only | in | VII.1 | | |

9752 6 59 Only in VII.1
9752 6 60 Only in VII.1
9752 6 91 Only in VII.1
9752 6102 Only in VII.1

97-Bk-250

| | | | | | | |
|------------|------------|---|---|---|-------|------|
| 9.725000+4 | 1.000000+0 | 0 | 0 | 1 | 09755 | 2151 |
| 9.725000+4 | 1.000000+0 | 0 | 1 | 2 | 09755 | 2151 |

| | | | | | | |
|------------|------------|---|---|---|---------|-----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1209755 | 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 669755 | 3 1 |

| | | | | | | |
|------------|------------|---|---|---|---------|-----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1209755 | 3 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 669755 | 3 2 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|-----|
| 0.000000+0-3.447200+4 | | 0 | 0 | 1 | 869755 | 3 4 |
| 0.000000+0-3.400000+4 | | 0 | 0 | 1 | 589755 | 3 4 |

| | | | | | | |
|------------------------|--|---|---|---|--------|------|
| -4.969570+6-4.969570+6 | | 0 | 0 | 1 | 319755 | 3 16 |
| -4.969690+6-4.969690+6 | | 0 | 0 | 1 | 179755 | 3 16 |

| | | | | | | |
|------------------------|--|---|---|---|--------|------|
| -1.127130+7-1.127130+7 | | 0 | 0 | 1 | 189755 | 3 17 |
| -1.118340+7-1.118340+7 | | 0 | 0 | 1 | 109755 | 3 17 |

| | | | | | | |
|------------|------------|---|---|---|---------|------|
| 2.144000+8 | 2.144000+8 | 0 | 0 | 1 | 1129755 | 3 18 |
| 1.899990+8 | 1.899990+8 | 0 | 0 | 2 | 449755 | 3 18 |

9755 3 19 Only in VII.1
9755 3 20 Only in VII.1
9755 3 21 Only in VII.1

| | | | | | | |
|------------------------|--|---|---|---|-------|------|
| -1.675320+7-1.675320+7 | | 0 | 0 | 1 | 79755 | 3 37 |
| -1.674910+7-1.674910+7 | | 0 | 0 | 1 | 59755 | 3 37 |

9755 3 38 Only in VII.1

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-3.447200+4 | | 0 | 0 | 1 | 859755 | 3 51 |
| 0.000000+0-3.400000+4 | | 0 | 0 | 1 | 589755 | 3 51 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-3.558700+4 | | 0 | 0 | 1 | 849755 | 3 52 |
| 0.000000+0-3.559990+4 | | 0 | 0 | 1 | 579755 | 3 52 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-7.832600+4 | | 0 | 0 | 1 | 819755 | 3 53 |
| 0.000000+0-7.809990+4 | | 0 | 0 | 1 | 549755 | 3 53 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-8.025800+4 | | 0 | 0 | 1 | 809755 | 3 54 |
| 0.000000+0-8.639990+4 | | 0 | 0 | 1 | 529755 | 3 54 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-8.640000+4 | | 0 | 0 | 1 | 799755 | 3 55 |
| 0.000000+0-9.699990+4 | | 0 | 0 | 1 | 519755 | 3 55 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-9.749300+4 | | 0 | 0 | 1 | 789755 | 3 56 |
| 0.000000+0-1.041000+5 | | 0 | 0 | 1 | 499755 | 3 56 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-1.038280+5 | | 0 | 0 | 1 | 769755 | 3 57 |
| 0.000000+0-1.254000+5 | | 0 | 0 | 1 | 489755 | 3 57 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-1.154420+5 | | 0 | 0 | 1 | 759755 | 3 58 |
| 0.000000+0-1.290000+5 | | 0 | 0 | 1 | 479755 | 3 58 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-1.250070+5 | | 0 | 0 | 1 | 739755 | 3 59 |
| 0.000000+0-1.319000+5 | | 0 | 0 | 1 | 469755 | 3 59 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-1.304920+5 | | 0 | 0 | 1 | 729755 | 3 60 |
| 0.000000+0-1.570000+5 | | 0 | 0 | 1 | 449755 | 3 60 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-1.373200+5 | | 0 | 0 | 1 | 719755 | 3 61 |
| 0.000000+0-1.670000+5 | | 0 | 0 | 1 | 439755 | 3 61 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-1.464720+5 | | 0 | 0 | 1 | 699755 | 3 62 |
| 0.000000+0-1.754000+5 | | 0 | 0 | 1 | 429755 | 3 62 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-1.485950+5 | | 0 | 0 | 1 | 689755 | 3 63 |
| 0.000000+0-1.910000+5 | | 0 | 0 | 1 | 419755 | 3 63 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-1.570000+5 | | 0 | 0 | 1 | 679755 | 3 64 |
| 0.000000+0-2.118000+5 | | 0 | 0 | 1 | 399755 | 3 64 |

| | | | | | |
|------------------------|---|---|---|--------------|---------------|
| ----- | | | | | |
| 0.000000+0-1.573910+5 | 0 | 0 | 1 | 669755 3 65 | |
| 0.000000+0-2.370000+5 | 0 | 0 | 1 | 389755 3 65 | |
| ----- | | | | | |
| 0.000000+0-1.670890+5 | 0 | 0 | 1 | 659755 3 66 | |
| 0.000000+0-2.420000+5 | 0 | 0 | 1 | 339755 3 66 | |
| ----- | | | | | |
| 0.000000+0-1.751230+5 | 0 | 0 | 1 | 639755 3 67 | |
| 0.000000+0-2.480000+5 | 0 | 0 | 1 | 369755 3 67 | |
| ----- | | | | | |
| 0.000000+0-1.799900+5 | 0 | 0 | 1 | 629755 3 68 | |
| 0.000000+0-2.700000+5 | 0 | 0 | 1 | 349755 3 68 | |
| ----- | | | | | |
| | | | | 9755 3 69 | Only in VII.1 |
| | | | | 9755 3 70 | Only in VII.1 |
| 0.000000+0-1.025350+5 | 0 | 0 | 1 | 779755 3 91 | |
| 0.000000+0-2.960000+5 | 0 | 0 | 1 | 339755 3 91 | |
| ----- | | | | | |
| 5.795070+6 5.795070+6 | 0 | 0 | 1 | 1139755 3102 | |
| 8.649990+5 8.649990+5 | 0 | 0 | 2 | 629755 3102 | |
| ----- | | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 1099755 4 2 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 709755 4 2 | |
| ----- | | | | | |
| | | | | 9755 4 16 | Only in VII.0 |
| | | | | 9755 4 17 | Only in VII.0 |
| 0.000000+0 2.479300+2 | 1 | 1 | 0 | 09755 4 18 | |
| 0.000000+0 2.479300+2 | 0 | 1 | 0 | 09755 4 18 | |
| ----- | | | | | |
| | | | | 9755 4 37 | Only in VII.0 |
| | | | | 9755 4 51 | Only in VII.0 |
| | | | | 9755 4 52 | Only in VII.0 |
| | | | | 9755 4 53 | Only in VII.0 |
| | | | | 9755 4 54 | Only in VII.0 |
| | | | | 9755 4 55 | Only in VII.0 |
| | | | | 9755 4 56 | Only in VII.0 |
| | | | | 9755 4 57 | Only in VII.0 |
| | | | | 9755 4 58 | Only in VII.0 |
| | | | | 9755 4 59 | Only in VII.0 |
| | | | | 9755 4 60 | Only in VII.0 |
| | | | | 9755 4 61 | Only in VII.0 |
| | | | | 9755 4 62 | Only in VII.0 |
| | | | | 9755 4 63 | Only in VII.0 |
| | | | | 9755 4 64 | Only in VII.0 |
| | | | | 9755 4 65 | Only in VII.0 |
| | | | | 9755 4 66 | Only in VII.0 |
| | | | | 9755 4 67 | Only in VII.0 |
| | | | | 9755 4 68 | Only in VII.0 |
| | | | | 9755 4 91 | Only in VII.0 |
| | | | | 9755 5 16 | Only in VII.0 |
| | | | | 9755 5 17 | Only in VII.0 |
| 0.000000+0 0.000000+0 | 0 | 1 | 1 | 29755 5 18 | |
| -2.000000+7 0.000000+0 | 0 | 7 | 1 | 29755 5 18 | |
| ----- | | | | | |
| | | | | 9755 5 37 | Only in VII.0 |
| | | | | 9755 5 91 | Only in VII.0 |
| | | | | 9755 6 16 | Only in VII.1 |
| | | | | 9755 6 17 | Only in VII.1 |
| | | | | 9755 6 37 | Only in VII.1 |
| | | | | 9755 6 51 | Only in VII.1 |
| | | | | 9755 6 52 | Only in VII.1 |
| | | | | 9755 6 53 | Only in VII.1 |
| | | | | 9755 6 54 | Only in VII.1 |
| | | | | 9755 6 55 | Only in VII.1 |
| | | | | 9755 6 56 | Only in VII.1 |
| | | | | 9755 6 57 | Only in VII.1 |
| | | | | 9755 6 58 | Only in VII.1 |
| | | | | 9755 6 59 | Only in VII.1 |
| | | | | 9755 6 60 | Only in VII.1 |
| | | | | 9755 6 61 | Only in VII.1 |
| | | | | 9755 6 62 | Only in VII.1 |
| | | | | 9755 6 63 | Only in VII.1 |
| | | | | 9755 6 64 | Only in VII.1 |
| | | | | 9755 6 65 | Only in VII.1 |
| | | | | 9755 6 66 | Only in VII.1 |

9755 6 67 Only in VII.1
9755 6 68 Only in VII.1
9755 6 69 Only in VII.1
9755 6 70 Only in VII.1
9755 6 91 Only in VII.1
9755 6102 Only in VII.1

98-Cf-246 Evaluation Only in VII.1

98-Cf-248 Evaluation Only in VII.1

98-Cf-249

| | | | | | | |
|------------|------------|---|---|---|--------|------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49852 | 1452 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 109852 | 1452 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----------|
| 1.350000-2 | 2.940000-2 | 1.053000-1 | 2.930000-1 | 8.475000-1 | 2.469800+0 | 9852 1455 |
| 1.351700-2 | 2.945000-2 | 1.053200-1 | 2.929800-1 | 8.474900-1 | 2.469800+0 | 9852 1455 |

| | | | | | | |
|------------|------------|---|---|---|-------|------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49852 | 1456 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 99852 | 1456 |

| | | | | | | |
|------------|------------|---|---|---|------------|---------------|
| 4.500000+0 | 7.738940-1 | 0 | 0 | 1 | 9852 1458 | Only in VII.1 |
| 4.500000+0 | 1.000000+0 | 0 | 0 | 1 | 09852 2151 | |
| | | | | | 09852 2151 | |

| | | | | | | |
|------------|------------|---|---|---|----------|-----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 13529852 | 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 699852 | 3 1 |

| | | | | | | |
|------------|------------|---|---|---|---------|-----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1559852 | 3 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 699852 | 3 2 |

| | | | | | | |
|------------|-------------|---|---|---|--------|-----|
| 0.000000+0 | -6.249000+4 | 0 | 0 | 1 | 819852 | 3 4 |
| 0.000000+0 | -6.249000+4 | 0 | 0 | 1 | 629852 | 3 4 |

| | | | | | | |
|-------------|-------------|---|---|---|--------|------|
| -5.585460+6 | -5.585460+6 | 0 | 0 | 1 | 309852 | 3 16 |
| -5.593100+6 | -5.593100+6 | 0 | 0 | 1 | 219852 | 3 16 |

| | | | | | | |
|-------------|-------------|---|---|---|--------|------|
| -1.255360+7 | -1.255360+7 | 0 | 0 | 1 | 169852 | 3 17 |
| -1.257200+7 | -1.257200+7 | 0 | 0 | 1 | 99852 | 3 17 |

| | | | | | | |
|------------|------------|---|---|---|----------|------|
| 2.117300+8 | 2.117300+8 | 0 | 0 | 2 | 13479852 | 3 18 |
| 2.000000+8 | 2.000000+8 | 0 | 0 | 2 | 699852 | 3 18 |

| | | | | | | |
|--|--|--|--|--|-----------|---------------|
| | | | | | 9852 3 19 | Only in VII.1 |
| | | | | | 9852 3 20 | Only in VII.1 |
| | | | | | 9852 3 21 | Only in VII.1 |
| | | | | | 9852 3 37 | Only in VII.1 |
| | | | | | 9852 3 38 | Only in VII.1 |

| | | | | | | |
|------------|-------------|---|---|---|--------|------|
| 0.000000+0 | -6.249000+4 | 0 | 0 | 1 | 809852 | 3 51 |
| 0.000000+0 | -6.249000+4 | 0 | 0 | 1 | 399852 | 3 51 |

| | | | | | | |
|------------|-------------|---|---|---|--------|------|
| 0.000000+0 | -1.362000+5 | 0 | 0 | 1 | 769852 | 3 52 |
| 0.000000+0 | -1.362000+5 | 0 | 0 | 1 | 339852 | 3 52 |

| | | | | | | |
|------------|-------------|---|---|---|--------|------|
| 0.000000+0 | -1.449600+5 | 0 | 0 | 1 | 749852 | 3 53 |
| 0.000000+0 | -1.449600+5 | 0 | 0 | 1 | 329852 | 3 53 |

| | | | | | | |
|------------|-------------|---|---|---|--------|------|
| 0.000000+0 | -1.879400+5 | 0 | 0 | 1 | 729852 | 3 54 |
| 0.000000+0 | -1.879400+5 | 0 | 0 | 1 | 299852 | 3 54 |

| | | | | | | |
|------------|-------------|---|---|---|--------|------|
| 0.000000+0 | -2.200000+5 | 0 | 0 | 1 | 709852 | 3 55 |
| 0.000000+0 | -2.200000+5 | 0 | 0 | 1 | 279852 | 3 55 |

| | | | | | | |
|------------|-------------|---|---|---|--------|------|
| 0.000000+0 | -2.430700+5 | 0 | 0 | 1 | 699852 | 3 56 |
| 0.000000+0 | -2.430700+5 | 0 | 0 | 1 | 269852 | 3 56 |

| | | | | | | |
|------------|-------------|---|---|---|--------|------|
| 0.000000+0 | -3.150000+5 | 0 | 0 | 1 | 669852 | 3 57 |
| 0.000000+0 | -3.150000+5 | 0 | 0 | 1 | 249852 | 3 57 |

| | | | | | | |
|------------|-------------|---|---|---|--------|------|
| 0.000000+0 | -3.150000+5 | 0 | 0 | 1 | 669852 | 3 58 |
| 0.000000+0 | -3.795200+5 | 0 | 0 | 1 | 229852 | 3 58 |

| | | | | | | |
|------------|-------------|---|---|---|--------|------|
| 0.000000+0 | -3.795200+5 | 0 | 0 | 1 | 659852 | 3 59 |
| 0.000000+0 | -3.840000+5 | 0 | 0 | 1 | 219852 | 3 59 |

| | | | | | |
|------------------------|---|---|---|-------------|---------------|
| 0.000000+0-3.840000+5 | 0 | 0 | 1 | 649852 3 60 | |
| 0.000000+0-4.168000+5 | 0 | 0 | 1 | 199852 3 60 | |
| 0.000000+0-4.168000+5 | 0 | 0 | 1 | 629852 3 61 | |
| 0.000000+0-4.375600+5 | 0 | 0 | 1 | 189852 3 61 | |
| 0.000000+0-4.250000+5 | 0 | 0 | 1 | 619852 3 62 | |
| 0.000000+0-4.400000+5 | 0 | 0 | 1 | 179852 3 62 | |
| 0.000000+0-4.375600+5 | 0 | 0 | 1 | 609852 3 63 | |
| 0.000000+0-4.429800+5 | 0 | 0 | 1 | 169852 3 63 | |
| 0.000000+0-4.400000+5 | 0 | 0 | 1 | 599852 3 64 | |
| 0.000000+0-4.600000+5 | 0 | 0 | 1 | 159852 3 64 | |
| 0.000000+0-4.429800+5 | 0 | 0 | 1 | 589852 3 65 | |
| 0.000000+0-5.007000+5 | 0 | 0 | 1 | 139852 3 65 | |
| | | | | 9852 3 66 | Only in VII.1 |
| | | | | 9852 3 67 | Only in VII.1 |
| 0.000000+0-1.095560+5 | 0 | 0 | 1 | 789852 3 91 | |
| 0.000000+0-5.007000+5 | 0 | 0 | 1 | 369852 3 91 | |
| 6.625150+6 6.625150+6 | 0 | 0 | 2 | 989852 3102 | |
| 6.623000+6 6.623000+6 | 0 | 0 | 2 | 699852 3102 | |
| | | | | 9852 3103 | Only in VII.0 |
| | | | | 9852 3107 | Only in VII.0 |
| 0.000000+0 2.469350+2 | 0 | 2 | 0 | 09852 4 2 | |
| 0.000000+0 2.469400+2 | 0 | 2 | 0 | 09852 4 2 | |
| | | | | 9852 4 16 | Only in VII.0 |
| | | | | 9852 4 17 | Only in VII.0 |
| 0.000000+0 2.469350+2 | 1 | 1 | 0 | 09852 4 18 | |
| 0.000000+0 2.469400+2 | 0 | 1 | 0 | 09852 4 18 | |
| | | | | 9852 4 51 | Only in VII.0 |
| | | | | 9852 4 52 | Only in VII.0 |
| | | | | 9852 4 53 | Only in VII.0 |
| | | | | 9852 4 54 | Only in VII.0 |
| | | | | 9852 4 55 | Only in VII.0 |
| | | | | 9852 4 56 | Only in VII.0 |
| | | | | 9852 4 57 | Only in VII.0 |
| | | | | 9852 4 58 | Only in VII.0 |
| | | | | 9852 4 59 | Only in VII.0 |
| | | | | 9852 4 60 | Only in VII.0 |
| | | | | 9852 4 61 | Only in VII.0 |
| | | | | 9852 4 62 | Only in VII.0 |
| | | | | 9852 4 63 | Only in VII.0 |
| | | | | 9852 4 64 | Only in VII.0 |
| | | | | 9852 4 65 | Only in VII.0 |
| | | | | 9852 4 91 | Only in VII.0 |
| | | | | 9852 5 16 | Only in VII.0 |
| | | | | 9852 5 17 | Only in VII.0 |
| 0.000000+0 0.000000+0 | 0 | 1 | 1 | 29852 5 18 | |
| -2.000000+7 0.000000+0 | 0 | 7 | 1 | 29852 5 18 | |
| | | | | 9852 5 91 | Only in VII.0 |
| | | | | 9852 6 16 | Only in VII.1 |
| | | | | 9852 6 17 | Only in VII.1 |
| | | | | 9852 6 37 | Only in VII.1 |
| | | | | 9852 6 51 | Only in VII.1 |
| | | | | 9852 6 52 | Only in VII.1 |
| | | | | 9852 6 53 | Only in VII.1 |
| | | | | 9852 6 54 | Only in VII.1 |
| | | | | 9852 6 55 | Only in VII.1 |
| | | | | 9852 6 56 | Only in VII.1 |
| | | | | 9852 6 57 | Only in VII.1 |
| | | | | 9852 6 58 | Only in VII.1 |
| | | | | 9852 6 59 | Only in VII.1 |
| | | | | 9852 6 60 | Only in VII.1 |
| | | | | 9852 6 61 | Only in VII.1 |
| | | | | 9852 6 62 | Only in VII.1 |
| | | | | 9852 6 63 | Only in VII.1 |
| | | | | 9852 6 64 | Only in VII.1 |

9852 6 65 Only in VII.1
9852 6 66 Only in VII.1
9852 6 67 Only in VII.1
9852 6 91 Only in VII.1
9852 6102 Only in VII.1

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| | | | | | | |
|------------|------------|---|---|---|-------|------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49855 | 1452 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 59855 | 1452 |

9855 1455 Only in VII.1
9855 1456 Only in VII.1

| | | | | | | |
|------------|------------|---|---|---|-------|------|
| 9.825000+4 | 1.000000+0 | 0 | 1 | 2 | 09855 | 2151 |
| 9.825000+4 | 1.000000+0 | 0 | 0 | 2 | 09855 | 2151 |

| | | | | | | |
|------------|------------|---|---|---|---------|-----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 959855 | 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 4 | 1709855 | 3 1 |

| | | | | | | |
|------------|------------|---|---|---|--------|-----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 909855 | 3 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 759855 | 3 2 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|-----|
| 0.000000+0-4.272200+4 | | 0 | 0 | 1 | 709855 | 3 4 |
| 0.000000+0-4.481900+4 | | 0 | 0 | 1 | 209855 | 3 4 |

| | | | | | | |
|------------------------|--|---|---|---|--------|------|
| -6.625150+6-6.625150+6 | | 0 | 0 | 1 | 289855 | 3 16 |
| -6.610000+6-6.610000+6 | | 0 | 0 | 1 | 199855 | 3 16 |

| | | | | | | |
|------------------------|--|---|---|---|--------|------|
| -1.221060+7-1.221060+7 | | 0 | 0 | 1 | 169855 | 3 17 |
| -1.221000+7-1.221000+7 | | 0 | 0 | 1 | 129855 | 3 17 |

| | | | | | | |
|------------|------------|---|---|---|--------|------|
| 2.144000+8 | 2.144000+8 | 0 | 0 | 2 | 909855 | 3 18 |
| 2.000000+8 | 2.000000+8 | 0 | 0 | 1 | 259855 | 3 18 |

9855 3 19 Only in VII.1
9855 3 20 Only in VII.1
9855 3 21 Only in VII.1

| | | | | | | |
|------------------------|--|---|---|---|-------|------|
| -1.917880+7-1.917880+7 | | 0 | 0 | 1 | 29855 | 3 37 |
| -1.859000+7-1.859000+7 | | 0 | 0 | 1 | 59855 | 3 37 |

9855 3 38 Only in VII.1
9855 3 51 Only in VII.1
9855 3 52 Only in VII.1
9855 3 53 Only in VII.1
9855 3 54 Only in VII.1

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-1.095580+5 | | 0 | 0 | 1 | 669855 | 3 91 |
| 0.000000+0-4.481920+4 | | 0 | 0 | 1 | 209855 | 3 91 |

| | | | | | | |
|------------|------------|---|---|---|--------|------|
| 5.108490+6 | 5.108490+6 | 0 | 0 | 2 | 909855 | 3102 |
| 5.110000+6 | 5.110000+6 | 0 | 0 | 4 | 869855 | 3102 |

| | | | | | | |
|------------|------------|---|---|---|-------|-----|
| 0.000000+0 | 2.479280+2 | 0 | 2 | 0 | 09855 | 4 2 |
| 0.000000+0 | 2.478600+2 | 0 | 2 | 0 | 09855 | 4 2 |

9855 4 16 Only in VII.0
9855 4 17 Only in VII.0
9855 4 37 Only in VII.0
9855 4 91 Only in VII.0
9855 5 16 Only in VII.0
9855 5 17 Only in VII.0

| | | | | | | |
|-------------|------------|---|---|---|-------|------|
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29855 | 5 18 |
| -3.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29855 | 5 18 |

9855 5 37 Only in VII.0
9855 5 91 Only in VII.0
9855 6 16 Only in VII.1
9855 6 17 Only in VII.1
9855 6 37 Only in VII.1
9855 6 51 Only in VII.1
9855 6 52 Only in VII.1
9855 6 53 Only in VII.1
9855 6 54 Only in VII.1
9855 6 91 Only in VII.1
9855 6102 Only in VII.1

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| | | | | | | | |
|------------------------|------------|------------|------------|------------|------------|------|------------------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49858 | 1452 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 79858 | 1452 | |
| 1.570000-2 | 2.880000-2 | 1.077000-1 | 3.246000-1 | 8.837000-1 | 2.631400+0 | 9858 | 1455 |
| 1.569700-2 | 2.883000-2 | 1.076900-1 | 3.245800-1 | 8.837100-1 | 2.631400+0 | 9858 | 1455 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 29858 | 1456 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 79858 | 1456 | |
| 1.000000-5 | 5.000000+0 | 1 | 2 | 0 | 9858 | 1458 | Only in VII.1 |
| 1.000000-5 | 1.639000+2 | 1 | 1 | 0 | 09858 | 2151 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1079858 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 3 | 1889858 | 3 | 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 1029858 | 3 | 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 869858 | 3 | 2 |
| 0.000000+0-2.482500+4 | | 0 | 0 | 1 | 829858 | 3 | 4 |
| 0.000000+0-2.490000+4 | | 0 | 0 | 1 | 199858 | 3 | 4 |
| -5.108490+6-5.108490+6 | | 0 | 0 | 1 | 319858 | 3 | 16 |
| -5.100000+6-5.100000+6 | | 0 | 0 | 1 | 169858 | 3 | 16 |
| -1.173360+7-1.173360+7 | | 0 | 0 | 1 | 179858 | 3 | 17 |
| -1.173000+7-1.173000+7 | | 0 | 0 | 1 | 89858 | 3 | 17 |
| 2.133860+8 | 2.133860+8 | 0 | 0 | 2 | 1029858 | 3 | 18 |
| 2.000000+8 | 2.000000+8 | 0 | 0 | 3 | 509858 | 3 | 18 |
| | | | | | 9858 | 3 | 19 Only in VII.1 |
| | | | | | 9858 | 3 | 20 Only in VII.1 |
| | | | | | 9858 | 3 | 21 Only in VII.1 |
| -1.731910+7-1.731910+7 | | 0 | 0 | 1 | 69858 | 3 | 37 |
| -1.732000+7-1.732000+7 | | 0 | 0 | 1 | 69858 | 3 | 37 |
| | | | | | 9858 | 3 | 38 Only in VII.1 |
| | | | | | 9858 | 3 | 51 Only in VII.1 |
| | | | | | 9858 | 3 | 52 Only in VII.1 |
| | | | | | 9858 | 3 | 53 Only in VII.1 |
| | | | | | 9858 | 3 | 54 Only in VII.1 |
| | | | | | 9858 | 3 | 55 Only in VII.1 |
| | | | | | 9858 | 3 | 56 Only in VII.1 |
| | | | | | 9858 | 3 | 57 Only in VII.1 |
| | | | | | 9858 | 3 | 58 Only in VII.1 |
| | | | | | 9858 | 3 | 59 Only in VII.1 |
| | | | | | 9858 | 3 | 60 Only in VII.1 |
| | | | | | 9858 | 3 | 61 Only in VII.1 |
| | | | | | 9858 | 3 | 62 Only in VII.1 |
| | | | | | 9858 | 3 | 63 Only in VII.1 |
| | | | | | 9858 | 3 | 64 Only in VII.1 |
| 0.000000+0-1.026650+5 | | 0 | 0 | 1 | 759858 | 3 | 91 |
| 0.000000+0-2.490000+4 | | 0 | 0 | 1 | 199858 | 3 | 91 |
| 6.171950+6 | 6.171950+6 | 0 | 0 | 2 | 1029858 | 3102 | |
| 6.170000+6 | 6.170000+6 | 0 | 0 | 3 | 769858 | 3102 | |
| 0.000000+0 | 2.489230+2 | 0 | 2 | 0 | 09858 | 4 | 2 |
| 0.000000+0 | 2.488500+2 | 0 | 2 | 0 | 09858 | 4 | 2 |
| | | | | | 9858 | 4 | 16 Only in VII.0 |
| | | | | | 9858 | 4 | 17 Only in VII.0 |
| | | | | | 9858 | 4 | 37 Only in VII.0 |
| | | | | | 9858 | 4 | 91 Only in VII.0 |
| | | | | | 9858 | 5 | 16 Only in VII.0 |
| | | | | | 9858 | 5 | 17 Only in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29858 | 5 | 18 |
| -3.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29858 | 5 | 18 |
| | | | | | 9858 | 5 | 37 Only in VII.0 |
| | | | | | 9858 | 5 | 91 Only in VII.0 |
| | | | | | 9858 | 6 | 16 Only in VII.1 |
| | | | | | 9858 | 6 | 17 Only in VII.1 |
| | | | | | 9858 | 6 | 37 Only in VII.1 |

9858 6 51 Only in VII.1
 9858 6 52 Only in VII.1
 9858 6 53 Only in VII.1
 9858 6 54 Only in VII.1
 9858 6 55 Only in VII.1
 9858 6 56 Only in VII.1
 9858 6 57 Only in VII.1
 9858 6 58 Only in VII.1
 9858 6 59 Only in VII.1
 9858 6 60 Only in VII.1
 9858 6 61 Only in VII.1
 9858 6 62 Only in VII.1
 9858 6 63 Only in VII.1
 9858 6 64 Only in VII.1
 9858 6 91 Only in VII.1
 9858 6102 Only in VII.1

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| | | | | | |
|------------|------------|---|---|---|------------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49861 1452 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 89861 1452 |

9861 1455 Only in VII.1
 9861 1456 Only in VII.1

| | | | | | |
|------------|------------|---|---|---|------------|
| 1.000000-5 | 1.000000+3 | 1 | 2 | 0 | 09861 2151 |
| 1.000000-5 | 3.665000+2 | 1 | 1 | 0 | 09861 2151 |

| | | | | | |
|------------|------------|---|---|---|------------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 969861 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 779861 3 1 |

| | | | | | |
|------------|------------|---|---|---|------------|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 969861 3 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 349861 3 2 |

| | | | | | |
|-----------------------|--|---|---|---|------------|
| 0.000000+0-4.572000+4 | | 0 | 0 | 1 | 769861 3 4 |
| 0.000000+0-4.980070+4 | | 0 | 0 | 1 | 279861 3 4 |

| | | | | | |
|------------------------|--|---|---|---|-------------|
| -6.171950+6-6.171950+6 | | 0 | 0 | 1 | 299861 3 16 |
| -6.170000+6-6.170000+6 | | 0 | 0 | 1 | 109861 3 16 |

| | | | | | |
|------------------------|--|---|---|---|-------------|
| -1.128040+7-1.128040+7 | | 0 | 0 | 1 | 189861 3 17 |
| -1.128000+7-1.128000+7 | | 0 | 0 | 1 | 99861 3 17 |

| | | | | | |
|-----------------------|--|---|---|---|-------------|
| 2.172000+8 2.172000+8 | | 0 | 0 | 2 | 919861 3 18 |
| 2.000000+8 2.000000+8 | | 0 | 0 | 1 | 419861 3 18 |

9861 3 19 Only in VII.1
 9861 3 20 Only in VII.1
 9861 3 21 Only in VII.1

| | | | | | |
|------------------------|--|---|---|---|------------|
| -1.790560+7-1.790560+7 | | 0 | 0 | 1 | 59861 3 37 |
| -1.790000+7-1.790000+7 | | 0 | 0 | 1 | 39861 3 37 |

9861 3 38 Only in VII.1
 9861 3 51 Only in VII.1
 9861 3 52 Only in VII.1
 9861 3 53 Only in VII.1
 9861 3 54 Only in VII.1
 9861 3 55 Only in VII.1
 9861 3 56 Only in VII.1
 9861 3 57 Only in VII.1
 9861 3 58 Only in VII.1
 9861 3 59 Only in VII.1
 9861 3 60 Only in VII.1

| | | | | | |
|-----------------------|--|---|---|---|-------------|
| 0.000000+0-1.104400+5 | | 0 | 0 | 1 | 729861 3 91 |
| 0.000000+0-4.980070+4 | | 0 | 0 | 1 | 279861 3 91 |

| | | | | | |
|-----------------------|--|---|---|---|-------------|
| 4.804290+6 4.804290+6 | | 0 | 0 | 2 | 869861 3102 |
| 4.790000+6 4.790000+6 | | 0 | 0 | 1 | 159861 3102 |

| | | | | | |
|-----------------------|--|---|---|---|-----------|
| 0.000000+0 2.499160+2 | | 0 | 2 | 0 | 09861 4 2 |
| 0.000000+0 2.498500+2 | | 0 | 2 | 0 | 09861 4 2 |

9861 4 16 Only in VII.0
 9861 4 17 Only in VII.0
 9861 4 37 Only in VII.0
 9861 4 91 Only in VII.0
 9861 5 16 Only in VII.0

| | | | | | | |
|-------------|------------|---|---|---|-------------|---------------|
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 9861 5 17 | Only in VII.0 |
| -3.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29861 5 18 | |
| ----- | | | | | | |
| | | | | | 9861 5 37 | Only in VII.0 |
| | | | | | 9861 5 91 | Only in VII.0 |
| | | | | | 9861 5455 | Only in VII.1 |
| | | | | | 9861 6 16 | Only in VII.1 |
| | | | | | 9861 6 17 | Only in VII.1 |
| | | | | | 9861 6 37 | Only in VII.1 |
| | | | | | 9861 6 51 | Only in VII.1 |
| | | | | | 9861 6 52 | Only in VII.1 |
| | | | | | 9861 6 53 | Only in VII.1 |
| | | | | | 9861 6 54 | Only in VII.1 |
| | | | | | 9861 6 55 | Only in VII.1 |
| | | | | | 9861 6 56 | Only in VII.1 |
| | | | | | 9861 6 57 | Only in VII.1 |
| | | | | | 9861 6 58 | Only in VII.1 |
| | | | | | 9861 6 59 | Only in VII.1 |
| | | | | | 9861 6 60 | Only in VII.1 |
| | | | | | 9861 6 91 | Only in VII.1 |
| | | | | | 9861 6102 | Only in VII.1 |
| 98-Cf-253 | | | | | | |
| ***** | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 49864 1452 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 09864 1452 | |
| ----- | | | | | | |
| | | | | | 9864 1455 | Only in VII.1 |
| | | | | | 9864 1456 | Only in VII.1 |
| 9.825300+4 | 1.000000+0 | 0 | 0 | 1 | 09864 2151 | |
| 9.825300+4 | 1.000000+0 | 0 | 1 | 2 | 09864 2151 | |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1089864 3 1 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 79864 3 1 | |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1089864 3 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 69864 3 2 | |
| ----- | | | | | | |
| | | | | | 9864 3 4 | Only in VII.1 |
| | | | | | 9864 3 16 | Only in VII.1 |
| | | | | | 9864 3 17 | Only in VII.1 |
| 2.185000+8 | 2.185000+8 | 0 | 0 | 1 | 989864 3 18 | |
| 2.000000+8 | 2.000000+8 | 0 | 0 | 1 | 79864 3 18 | |
| ----- | | | | | | |
| | | | | | 9864 3 19 | Only in VII.1 |
| | | | | | 9864 3 20 | Only in VII.1 |
| | | | | | 9864 3 21 | Only in VII.1 |
| | | | | | 9864 3 37 | Only in VII.1 |
| | | | | | 9864 3 38 | Only in VII.1 |
| | | | | | 9864 3 51 | Only in VII.1 |
| | | | | | 9864 3 52 | Only in VII.1 |
| | | | | | 9864 3 53 | Only in VII.1 |
| | | | | | 9864 3 54 | Only in VII.1 |
| | | | | | 9864 3 55 | Only in VII.1 |
| | | | | | 9864 3 56 | Only in VII.1 |
| | | | | | 9864 3 91 | Only in VII.1 |
| 6.031560+6 | 6.031560+6 | 0 | 0 | 1 | 989864 3102 | |
| 5.980000+6 | 5.980000+6 | 0 | 0 | 1 | 79864 3102 | |
| ----- | | | | | | |
| 0.000000+0 | 2.509110+2 | 0 | 2 | 0 | 09864 4 2 | |
| 0.000000+0 | 2.488500+2 | 0 | 2 | 0 | 09864 4 2 | |
| ----- | | | | | | |
| 0.000000+0 | 2.509110+2 | 1 | 1 | 0 | 09864 4 18 | |
| 0.000000+0 | 2.509100+2 | 1 | 1 | 0 | 09864 4 18 | |
| ----- | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29864 5 18 | |
| -2.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29864 5 18 | |
| ----- | | | | | | |
| | | | | | 9864 6 16 | Only in VII.1 |
| | | | | | 9864 6 17 | Only in VII.1 |
| | | | | | 9864 6 37 | Only in VII.1 |
| | | | | | 9864 6 51 | Only in VII.1 |
| | | | | | 9864 6 52 | Only in VII.1 |
| | | | | | 9864 6 53 | Only in VII.1 |
| | | | | | 9864 6 54 | Only in VII.1 |

9864 6 55 Only in VII.1
9864 6 56 Only in VII.1
9864 6 91 Only in VII.1
9864 6102 Only in VII.1

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| | | | | | | |
|------------|------------|---|---|---|-------|------|
| 1.000000-5 | 1.300000+1 | 0 | 0 | 0 | 09867 | 2151 |
| 1.000000-5 | 1.200000+2 | 0 | 0 | 0 | 09867 | 2151 |

| | | | | | | |
|------------|------------|---|---|---|---------|-----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 1069867 | 3 1 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 689867 | 3 1 |

| | | | | | | |
|------------|------------|---|---|---|--------|-----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 959867 | 3 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 2 | 539867 | 3 2 |

| | | | | | | |
|-----------------------|--|---|---|---|--------|-----|
| 0.000000+0-4.572000+4 | | 0 | 0 | 1 | 709867 | 3 4 |
| 0.000000+0-4.499990+4 | | 0 | 0 | 1 | 409867 | 3 4 |

| | | | | | | |
|------------------------|--|---|---|---|--------|------|
| -6.031560+6-6.031560+6 | | 0 | 0 | 1 | 299867 | 3 16 |
| -6.028690+6-6.028690+6 | | 0 | 0 | 1 | 159867 | 3 16 |

| | | | | | | |
|------------------------|--|---|---|---|--------|------|
| -1.083580+7-1.083580+7 | | 0 | 0 | 1 | 199867 | 3 17 |
| -1.083240+7-1.083240+7 | | 0 | 0 | 1 | 119867 | 3 17 |

| | | | | | | |
|------------|------------|---|---|---|--------|------|
| 2.199000+8 | 2.199000+8 | 0 | 0 | 1 | 909867 | 3 18 |
| 1.999990+8 | 1.999990+8 | 0 | 0 | 1 | 529867 | 3 18 |

9867 3 19 Only in VII.1
9867 3 20 Only in VII.1
9867 3 21 Only in VII.1

| | | | | | | |
|------------------------|--|---|---|---|-------|------|
| -1.700780+7-1.700780+7 | | 0 | 0 | 1 | 79867 | 3 37 |
| -1.700310+7-1.700310+7 | | 0 | 0 | 1 | 49867 | 3 37 |

9867 3 38 Only in VII.1
699867 3 51
409867 3 51

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-4.572000+4 | | 0 | 0 | 1 | 699867 | 3 51 |
| 0.000000+0-4.499990+4 | | 0 | 0 | 1 | 409867 | 3 51 |

9867 3 52 Only in VII.1
9867 3 53 Only in VII.1
9867 3 54 Only in VII.1

| | | | | | | |
|-----------------------|--|---|---|---|--------|------|
| 0.000000+0-1.104370+5 | | 0 | 0 | 1 | 669867 | 3 91 |
| 0.000000+0-1.400000+5 | | 0 | 0 | 1 | 369867 | 3 91 |

| | | | | | | |
|------------|------------|---|---|---|--------|------|
| 4.603080+6 | 4.603080+6 | 0 | 0 | 1 | 909867 | 3102 |
| 4.449990+6 | 4.449990+6 | 0 | 0 | 1 | 539867 | 3102 |

| | | | | | | |
|------------|------------|---|---|---|--------|-----|
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 939867 | 4 2 |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 539867 | 4 2 |

9867 4 16 Only in VII.0
9867 4 17 Only in VII.0

| | | | | | | |
|------------|------------|---|---|---|-------|------|
| 0.000000+0 | 2.519050+2 | 1 | 1 | 0 | 09867 | 4 18 |
| 0.000000+0 | 2.519050+2 | 0 | 1 | 0 | 09867 | 4 18 |

9867 4 37 Only in VII.0
9867 4 51 Only in VII.0
9867 4 91 Only in VII.0
9867 5 16 Only in VII.0
9867 5 17 Only in VII.0

| | | | | | | |
|-------------|------------|---|---|---|-------|------|
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29867 | 5 18 |
| -2.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29867 | 5 18 |

9867 5 37 Only in VII.0
9867 5 91 Only in VII.0
9867 6 16 Only in VII.1
9867 6 17 Only in VII.1
9867 6 37 Only in VII.1
9867 6 51 Only in VII.1
9867 6 52 Only in VII.1
9867 6 53 Only in VII.1
9867 6 54 Only in VII.1
9867 6 91 Only in VII.1
9867 6102 Only in VII.1

99-Es-251 Evaluation Only in VII.1

```

99-Es-252      Evaluation Only in VII.1
*****
99-Es-253
*****
9913 1452 Only in VII.1
9913 1455 Only in VII.1
9913 1456 Only in VII.1
9.925300+4 1.000000+0      0      0      1      09913 2151
9.925300+4 1.000000+0      0      0      2      09913 2151
-----
0.000000+0 0.000000+0      0      0      1      1079913 3 1
0.000000+0 0.000000+0      0      0      3      819913 3 1
-----
0.000000+0 0.000000+0      0      0      2      1079913 3 2
0.000000+0 0.000000+0      0      0      2      599913 3 2
-----
9913 3 4 Only in VII.1
9913 3 16 Only in VII.1
9913 3 17 Only in VII.1
9913 3 18 Only in VII.1
9913 3 19 Only in VII.1
9913 3 20 Only in VII.1
9913 3 21 Only in VII.1
9913 3 37 Only in VII.1
9913 3 38 Only in VII.1
9913 3 51 Only in VII.1
9913 3 52 Only in VII.1
9913 3 53 Only in VII.1
9913 3 54 Only in VII.1
9913 3 55 Only in VII.1
9913 3 91 Only in VII.1
5.093030+6 5.093030+6      0      0      1      969913 3102
5.092000+6 5.092000+6      0      0      3      299913 3102
-----
0.000000+0 2.509110+2      0      2      0      09913 4 2
0.000000+0 2.488500+2      0      2      0      09913 4 2
-----
9913 4 18 Only in VII.1
9913 5 18 Only in VII.1
9913 6 16 Only in VII.1
9913 6 17 Only in VII.1
9913 6 37 Only in VII.1
9913 6 51 Only in VII.1
9913 6 52 Only in VII.1
9913 6 53 Only in VII.1
9913 6 54 Only in VII.1
9913 6 55 Only in VII.1
9913 6 91 Only in VII.1
9913 6102 Only in VII.1

99-Es-254
*****
9914 1458 Only in VII.1
1.000000-5 5.000000-1      0      0      0      09914 2151
1.000000-5 5.000000+0      0      0      0      09914 2151
-----
0.000000+0 0.000000+0      0      0      1      1089914 3 1
0.000000+0 0.000000+0      0      0      1      649914 3 1
-----
0.000000+0 0.000000+0      0      0      1      1089914 3 2
0.000000+0 0.000000+0      0      0      2      539914 3 2
-----
0.000000+0-8.010000+4      0      0      1      729914 3 4
0.000000+0-7.799990+4      0      0      1      379914 3 4
-----
-5.093030+6-5.093030+6      0      0      1      319914 3 16
-5.092090+6-5.092090+6      0      0      1      169914 3 16
-----
-1.144460+7-1.144460+7      0      0      1      189914 3 17
-1.130140+7-1.130140+7      0      0      1      109914 3 17
-----
2.223370+8 2.223370+8      0      0      1      999914 3 18
1.999990+8 1.999990+8      0      0      1      519914 3 18
-----
9914 3 19 Only in VII.1
9914 3 20 Only in VII.1

```

| | | | | |
|-------------------------------------|---|---|---|-------------------------|
| -1.673420+7-1.673420+7 | 0 | 0 | 1 | 9914 3 21 Only in VII.1 |
| -1.672610+7-1.672610+7 | 0 | 0 | 1 | 79914 3 37 |
| | | | | 59914 3 37 |
| ----- | | | | |
| 0.000000+0-8.010000+4 | 0 | 0 | 1 | 9914 3 38 Only in VII.1 |
| 0.000000+0-7.799990+4 | 0 | 0 | 1 | 709914 3 51 |
| | | | | 379914 3 51 |
| ----- | | | | |
| | | | | 9914 3 52 Only in VII.1 |
| | | | | 9914 3 53 Only in VII.1 |
| | | | | 9914 3 54 Only in VII.1 |
| | | | | 9914 3 55 Only in VII.1 |
| | | | | 9914 3 56 Only in VII.1 |
| | | | | 9914 3 57 Only in VII.1 |
| 0.000000+0-1.077530+5 | 0 | 0 | 1 | 689914 3 91 |
| 0.000000+0-5.029990+5 | 0 | 0 | 1 | 289914 3 91 |
| ----- | | | | |
| 5.974430+6 5.974430+6 | 0 | 0 | 1 | 999914 3102 |
| 5.982690+6 5.982690+6 | 0 | 0 | 1 | 539914 3102 |
| ----- | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 969914 4 2 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 519914 4 2 |
| ----- | | | | |
| | | | | 9914 4 16 Only in VII.0 |
| | | | | 9914 4 17 Only in VII.0 |
| 0.000000+0 2.519050+2 | 1 | 1 | 0 | 09914 4 18 |
| 0.000000+0 2.519050+2 | 0 | 1 | 0 | 09914 4 18 |
| ----- | | | | |
| | | | | 9914 4 37 Only in VII.0 |
| | | | | 9914 4 51 Only in VII.0 |
| | | | | 9914 4 91 Only in VII.0 |
| | | | | 9914 5 16 Only in VII.0 |
| | | | | 9914 5 17 Only in VII.0 |
| 0.000000+0 0.000000+0 | 0 | 1 | 1 | 29914 5 18 |
| -2.000000+7 0.000000+0 | 0 | 7 | 1 | 29914 5 18 |
| ----- | | | | |
| | | | | 9914 5 37 Only in VII.0 |
| | | | | 9914 5 91 Only in VII.0 |
| | | | | 9914 5455 Only in VII.1 |
| | | | | 9914 6 16 Only in VII.1 |
| | | | | 9914 6 17 Only in VII.1 |
| | | | | 9914 6 37 Only in VII.1 |
| | | | | 9914 6 51 Only in VII.1 |
| | | | | 9914 6 52 Only in VII.1 |
| | | | | 9914 6 53 Only in VII.1 |
| | | | | 9914 6 54 Only in VII.1 |
| | | | | 9914 6 55 Only in VII.1 |
| | | | | 9914 6 56 Only in VII.1 |
| | | | | 9914 6 57 Only in VII.1 |
| | | | | 9914 6 91 Only in VII.1 |
| | | | | 9914 6102 Only in VII.1 |
| ----- | | | | |
| 99-Es-254m Evaluation Only in VII.1 | | | | |
| ***** | | | | |
| 99-Es-255 | | | | |
| ***** | | | | |
| 1.000000-5 2.500000-1 | 0 | 0 | 0 | 09916 2151 |
| 1.000000-5 2.470000+0 | 0 | 0 | 0 | 09915 2151 |
| ----- | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 1109916 3 1 |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 699915 3 1 |
| ----- | | | | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | 1069916 3 2 |
| 0.000000+0 0.000000+0 | 0 | 0 | 2 | 579915 3 2 |
| ----- | | | | |
| 0.000000+0-4.640000+4 | 0 | 0 | 1 | 689916 3 4 |
| 0.000000+0-4.799990+4 | 0 | 0 | 1 | 429915 3 4 |
| ----- | | | | |
| -5.974430+6-5.974430+6 | 0 | 0 | 1 | 299916 3 16 |
| -5.983690+6-5.983690+6 | 0 | 0 | 1 | 159915 3 16 |
| ----- | | | | |
| -1.106750+7-1.106750+7 | 0 | 0 | 1 | 199916 3 17 |
| -1.107580+7-1.107580+7 | 0 | 0 | 1 | 109915 3 17 |
| ----- | | | | |
| 2.213000+8 2.213000+8 | 0 | 0 | 1 | 929916 3 18 |
| 1.999990+8 1.999990+8 | 0 | 0 | 1 | 549915 3 18 |

| | | | | | | |
|--|---|---|---|--|-------------|---------------|
| | | | | | 9916 3 19 | Only in VII.1 |
| | | | | | 9916 3 20 | Only in VII.1 |
| | | | | | 9916 3 21 | Only in VII.1 |
| -1.741910+7-1.741910+7 | 0 | 0 | 1 | | 69916 3 37 | |
| -1.728510+7-1.728510+7 | 0 | 0 | 1 | | 49915 3 37 | |
| | | | | | 9916 3 38 | Only in VII.1 |
| 0.000000+0-4.640000+4 | 0 | 0 | 1 | | 679916 3 51 | |
| 0.000000+0-4.799990+4 | 0 | 0 | 1 | | 429915 3 51 | |
| | | | | | 649916 3 52 | |
| 0.000000+0-8.000000+4 | 0 | 0 | 1 | | 419915 3 52 | |
| | | | | | 9915 3 53 | Only in VII.0 |
| 0.000000+0-1.104350+5 | 0 | 0 | 1 | | 639916 3 91 | |
| 0.000000+0-4.999990+5 | 0 | 0 | 1 | | 309915 3 91 | |
| | | | | | 949916 3102 | |
| 4.974190+6 4.974190+6 | 0 | 0 | 1 | | 579915 3102 | |
| 4.901690+6 4.901690+6 | 0 | 0 | 1 | | | |
| | | | | | 919916 4 2 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | | 559915 4 2 | |
| | | | | | 9915 4 16 | Only in VII.0 |
| | | | | | 9915 4 17 | Only in VII.0 |
| 0.000000+0 2.528990+2 | 1 | 1 | 0 | | 09916 4 18 | |
| 0.000000+0 2.528990+2 | 0 | 1 | 0 | | 09915 4 18 | |
| | | | | | 9915 4 37 | Only in VII.0 |
| | | | | | 9915 4 51 | Only in VII.0 |
| | | | | | 9915 4 52 | Only in VII.0 |
| | | | | | 9915 4 53 | Only in VII.0 |
| | | | | | 9915 4 91 | Only in VII.0 |
| | | | | | 9915 5 16 | Only in VII.0 |
| | | | | | 9915 5 17 | Only in VII.0 |
| 0.000000+0 0.000000+0 | 0 | 1 | 1 | | 29916 5 18 | |
| -2.000000+7 0.000000+0 | 0 | 7 | 1 | | 29915 5 18 | |
| | | | | | 9915 5 37 | Only in VII.0 |
| | | | | | 9915 5 91 | Only in VII.0 |
| | | | | | 9916 6 16 | Only in VII.1 |
| | | | | | 9916 6 17 | Only in VII.1 |
| | | | | | 9916 6 37 | Only in VII.1 |
| | | | | | 9916 6 51 | Only in VII.1 |
| | | | | | 9916 6 52 | Only in VII.1 |
| | | | | | 9916 6 91 | Only in VII.1 |
| | | | | | 9916 6102 | Only in VII.1 |
| 100-Fm-255 | | | | | | |
| ***** | | | | | | |
| 1.000000-5 4.002733+0 2.530000-2 4.002733+0 5.000000+6 5.252733+09936 1452 | | | | | | |
| 1.000000-5 4.392400+0 2.530000-2 4.392400+0 5.000000+6 5.642400+09936 1452 | | | | | | |
| | | | | | 9936 1456 | |
| 1.000000-5 4.000000+0 2.000000+7 9.000000+0 | | | | | | |
| 1.000000-5 4.389700+0 2.000000+7 9.389700+0 | | | | | | |
| | | | | | 9936 1458 | Only in VII.1 |
| 1.000000-5 4.500000-1 | 0 | 0 | 0 | | 09936 2151 | |
| 1.000000-5 3.800000+0 | 0 | 0 | 0 | | 09936 2151 | |
| | | | | | 1079936 3 1 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | | 589936 3 1 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 1 | | 1079936 3 2 | |
| 0.000000+0 0.000000+0 | 0 | 0 | 2 | | 539936 3 2 | |
| | | | | | 729936 3 4 | |
| 0.000000+0-6.000000+4 | 0 | 0 | 1 | | 379936 3 4 | |
| 0.000000+0-5.999990+4 | 0 | 0 | 1 | | | |
| | | | | | 319936 3 16 | |
| -5.176250+6-5.176250+6 | 0 | 0 | 1 | | 169936 3 16 | |
| -5.174690+6-5.174690+6 | 0 | 0 | 1 | | | |
| | | | | | 189936 3 17 | |
| -1.169290+7-1.169290+7 | 0 | 0 | 1 | | 109936 3 17 | |
| -1.169340+7-1.169340+7 | 0 | 0 | 1 | | | |

| | | | | | | | | |
|-------------|-------------|---|---|---|---------|------|----|---------------|
| 2.276190+8 | 2.276190+8 | 0 | 0 | 1 | 1009936 | 3 | 18 | |
| 1.999990+8 | 1.999990+8 | 0 | 0 | 1 | 519936 | 3 | 18 | |
| ----- | | | | | | | | |
| | | | | | 9936 | 3 | 19 | Only in VII.1 |
| | | | | | 9936 | 3 | 20 | Only in VII.1 |
| | | | | | 9936 | 3 | 21 | Only in VII.1 |
| -1.723210+7 | -1.723210+7 | 0 | 0 | 1 | 69936 | 3 | 37 | |
| -1.724110+7 | -1.724110+7 | 0 | 0 | 1 | 49936 | 3 | 37 | |
| ----- | | | | | | | | |
| | | | | | 9936 | 3 | 38 | Only in VII.1 |
| 0.000000+0 | -6.000000+4 | 0 | 0 | 1 | 719936 | 3 | 51 | |
| 0.000000+0 | -5.999990+4 | 0 | 0 | 1 | 379936 | 3 | 51 | |
| ----- | | | | | | | | |
| | | | | | 9936 | 3 | 52 | Only in VII.1 |
| | | | | | 9936 | 3 | 53 | Only in VII.1 |
| | | | | | 9936 | 3 | 54 | Only in VII.1 |
| | | | | | 9936 | 3 | 55 | Only in VII.1 |
| | | | | | 9936 | 3 | 56 | Only in VII.1 |
| | | | | | 9936 | 3 | 57 | Only in VII.1 |
| 0.000000+0 | -1.104350+5 | 0 | 0 | 1 | 689936 | 3 | 91 | |
| 0.000000+0 | -9.399990+4 | 0 | 0 | 1 | 359936 | 3 | 91 | |
| ----- | | | | | | | | |
| 6.384460+6 | 6.384460+6 | 0 | 0 | 1 | 1009936 | 3102 | | |
| 6.386690+6 | 6.386690+6 | 0 | 0 | 1 | 539936 | 3102 | | |
| ----- | | | | | | | | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 969936 | 4 | 2 | |
| 0.000000+0 | 0.000000+0 | 0 | 0 | 1 | 519936 | 4 | 2 | |
| ----- | | | | | | | | |
| | | | | | 9936 | 4 | 16 | Only in VII.0 |
| | | | | | 9936 | 4 | 17 | Only in VII.0 |
| 0.000000+0 | 2.528990+2 | 1 | 1 | 0 | 09936 | 4 | 18 | |
| 0.000000+0 | 2.528990+2 | 0 | 1 | 0 | 09936 | 4 | 18 | |
| ----- | | | | | | | | |
| | | | | | 9936 | 4 | 37 | Only in VII.0 |
| | | | | | 9936 | 4 | 51 | Only in VII.0 |
| | | | | | 9936 | 4 | 91 | Only in VII.0 |
| | | | | | 9936 | 5 | 16 | Only in VII.0 |
| | | | | | 9936 | 5 | 17 | Only in VII.0 |
| 0.000000+0 | 0.000000+0 | 0 | 1 | 1 | 29936 | 5 | 18 | |
| -2.000000+7 | 0.000000+0 | 0 | 7 | 1 | 29936 | 5 | 18 | |
| ----- | | | | | | | | |
| | | | | | 9936 | 5 | 37 | Only in VII.0 |
| | | | | | 9936 | 5 | 91 | Only in VII.0 |
| | | | | | 9936 | 5455 | | Only in VII.1 |
| | | | | | 9936 | 6 | 16 | Only in VII.1 |
| | | | | | 9936 | 6 | 17 | Only in VII.1 |
| | | | | | 9936 | 6 | 37 | Only in VII.1 |
| | | | | | 9936 | 6 | 51 | Only in VII.1 |
| | | | | | 9936 | 6 | 52 | Only in VII.1 |
| | | | | | 9936 | 6 | 53 | Only in VII.1 |
| | | | | | 9936 | 6 | 54 | Only in VII.1 |
| | | | | | 9936 | 6 | 55 | Only in VII.1 |
| | | | | | 9936 | 6 | 56 | Only in VII.1 |
| | | | | | 9936 | 6 | 57 | Only in VII.1 |
| | | | | | 9936 | 6 | 91 | Only in VII.1 |
| | | | | | 9936 | 6102 | | Only in VII.1 |

=====(End)=====