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**Recent References:
January 1, 2005 to March 31, 2005**

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This document lists experimental references added to Nuclear Science References (NSR) during the period January 1, 2005 to March 31, 2005. The first section lists keynumbers and keywords sorted by mass and nuclide. The second section lists all references, ordered by keynumber.

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Contents

Keynumbers and Keywords	2
References	108

Keynumbers and Keywords

A=1

^1n	2004G056	NUCLEAR REACTIONS $^3\text{H}(\alpha, \text{d}\alpha)$, $E=67.2$ MeV; measured E_{d} , E_{α} , $\text{d}\alpha$ -coin, $\sigma(\theta)$. ^6Li deduced levels, widths. JOUR UKPJA 49 16
	2004NI18	NUCLEAR REACTIONS $^3\text{He}(\gamma, 2\text{p})$, $E=0.35\text{--}1.55$ GeV; measured E_{p} , pp-coin, σ , $\sigma(E, \theta)$; deduced reaction mechanism features. Tagged photons. JOUR PRVCA 70 064003
	2004ZH42	NUCLEAR REACTIONS $^3\text{He}(\text{polarized e}, \text{e})$, $E=1.2$ GeV; $^3\text{He}(\text{polarized e}, \text{e}'\text{X})$, $E=5.7$ GeV; measured asymmetries. ^1n deduced spin asymmetries, polarized structure functions. Polarized target. JOUR PRVCA 70 065207
	2005AB01	NUCLEAR REACTIONS $^1\text{H}(\text{p}, \text{p}\pi^+)$, (p, π^+) , $E=951$ MeV; measured missing mass spectra, σ ; deduced D-state effects. JOUR PYLBB 610 31
	2005AH01	NUCLEAR REACTIONS $^1\text{H}(\gamma, \pi^+\gamma)$, $E=537\text{--}817$ MeV; measured E_{γ} , E_{n} , (pion) $\text{n}\gamma$ -coin, $\sigma(\theta)$; deduced pion polarizabilities. Tagged photon beam, comparison with model predictions. JOUR ZAANE 23 113
	2005DI03	NUCLEAR REACTIONS $^1,^2\text{H}(\text{polarized e}^+, \text{e}^+\text{X})$, $E=27.6$ GeV; $^1\text{H}(\text{polarized e}^+, \text{e}^+\pi^+)$, $E=27.6$ GeV; measured σ , polarization observables. ^1n , ^1H deduced spin structure features. Polarized targets. JOUR ZAANE 24 s01 23
	2005GL03	NUCLEAR REACTIONS $^2\text{H}(\text{polarized e}, \text{e}'\text{n})$, $E=660, 855, 883$ MeV; measured asymmetry, polarization transfer. ^1n deduced electric form factor. JOUR ZAANE 24 101
	2005PEZZ	NUCLEAR REACTIONS $^2\text{H}(\text{p}, 2\text{p})$, $E=6$ MeV; measured E_{p} , pp-coin. $^1\text{H}(\text{p}, \text{p})$, $E=0.3\text{--}0.8$ MeV; deduced σ , Coulomb interaction effects. Trojan horse method. CONF Riken(Origin of Matter) Proc,P513,Pellegriti
	2005R002	NUCLEAR REACTIONS $^2\text{H}(\gamma, \text{p})$, $E=0.5\text{--}3$ GeV; measured E_{p} , $\sigma(\theta)$; deduced scaling features. JOUR PRLTA 94 012301
	2005SE01	RADIOACTIVITY $^1\text{n}(\beta^-)$; measured $T_{1/2}$. Ultracold neutrons, comparison with previous results, model predictions. JOUR PYLBB 605 72
	2005TUZZ	NUCLEAR REACTIONS $^2\text{H}(^7\text{Li}, 2\alpha)$, $(^6\text{Li}, ^3\text{He}\alpha)$, $^6\text{Li}(^6\text{Li}, 2\alpha)$, E not given; measured particle spectra. $^7\text{Li}(\text{p}, \alpha)$, $E(\text{cm}) \approx 0.01\text{--}0.5$ MeV; $^6\text{Li}(\text{d}, \alpha)$, (p, α) , $E(\text{cm}) \approx 0.01\text{--}1$ MeV; deduced astrophysical S-factors. CONF Riken(Origin of Matter) Proc,P553,Tumino
	2005YA05	NUCLEAR REACTIONS $^2\text{H}(\text{polarized p}, 2\text{p})$, $E=0.5, 0.8$ GeV; measured $A_{\text{y}}(\theta)$. Comparison with model predictions. JOUR PRLTA 94 072304
^1H	2004BEZP	NUCLEAR REACTIONS $^1\text{H}(^{22}\text{O}, \text{p})$, $(^{22}\text{O}, ^{22}\text{O}')$, $E \approx 47$ MeV / nucleon; measured particle spectra, $\sigma(E, \theta)$. ^{22}O level deduced deformation parameter. MUST detector array. REPT IPNO-T-04-17,Becheva
	2004SHZZ	NUCLEAR REACTIONS $^1\text{H}(\text{polarized n}, \text{n})$, $E=1.39, 1.69, 1.89, 1.99$ GeV; measured σ , polarization, longitudinal cross-section difference. REPT JINR-E1-2004-87,Sharov

A=1 (*continued*)

- 2005AL01 NUCLEAR REACTIONS $^1\text{H}(\text{p}, \text{p})$, $E=0.45\text{-}2.5$ GeV; measured analyzing powers vs energy, angle. Polarized target, comparisons with previous results. JOUR ZAANE 23 351
- 2005BA11 NUCLEAR REACTIONS $^1\text{H}(^{16}\text{O}, \alpha^{12}\text{C})$, E at 3.25 GeV / c / nucleon; measured recoil proton spectra, angular distributions, charged fragment spectra; deduced reaction mechanism features. JOUR UKPJA 50 16
- 2005BA25 NUCLEAR REACTIONS $^1\text{H}(\text{polarized } e, e)$, $E=569.31, 855.15$ MeV; measured transverse spin asymmetry; deduced resonance contributions. JOUR ZAANE 24 s02 35
- 2005BE12 NUCLEAR REACTIONS $^3\text{He}(e, e'\text{np})$, $E=\text{high}$; measured proton spectra, missing energy, $\sigma(E, \theta)$. ^3He deduced proton effective momentum density. JOUR PRLTA 94 082305
- 2005DI03 NUCLEAR REACTIONS $^{1,2}\text{H}(\text{polarized } e^+, e^+\text{'X})$, $E=27.6$ GeV; $^1\text{H}(\text{polarized } e^+, e^+\pi^+)$, $E=27.6$ GeV; measured σ , polarization observables. ^1n , ^1H deduced spin structure features. Polarized targets. JOUR ZAANE 24 s01 23
- 2005ER01 NUCLEAR REACTIONS $^2\text{H}(\pi^-, 2\pi^-)$, $E=430$ MeV; measured pion and proton spectra, σ , $\sigma(\theta)$. $^1\text{n}(\pi^-, 2\pi^-)$, $E=430$ MeV; deduced σ . Comparisons with model predictions. JOUR ZAANE 23 345
- 2005GL03 NUCLEAR REACTIONS $^2\text{H}(\text{polarized } e, e'\text{n})$, $E=660, 855, 883$ MeV; measured asymmetry, polarization transfer. ^1n deduced electric form factor. JOUR ZAANE 24 101
- 2005J002 NUCLEAR REACTIONS $^1\text{H}(\text{n}, \text{n})$, $E=96$ MeV; measured $\sigma(\theta)$. Comparison with model predictions. JOUR PRVCA 71 024002
- 2005KI03 NUCLEAR REACTIONS $^1\text{H}(\text{polarized } e, e)$, $E=3$ GeV; measured spin asymmetries. JOUR ZAANE 24 s02 39
- 2005MA13 NUCLEAR REACTIONS $^1\text{H}(\text{polarized } e, e)$, $E=569.31, 855.15$ MeV; measured transverse spin asymmetry; deduced intermediate states contributions. Comparison with model predictions. JOUR PRLTA 94 082001
- 2005MA19 NUCLEAR REACTIONS $^1\text{H}(\text{polarized } e, e)$, $E=570.4, 854.3$ MeV; measured parity violating asymmetry. JOUR ZAANE 24 s02 47
- 2005OKZZ NUCLEAR REACTIONS $^1\text{H}(\text{p}, \text{p})$, $E=100$ GeV; measured recoil proton spectra, analyzing power. Polarized target. PREPRINT nucl-ex/0502022, 2/25/2005
- 2005PEZZ NUCLEAR REACTIONS $^2\text{H}(\text{p}, 2\text{p})$, $E=6$ MeV; measured E_{p} , pp-coin. $^1\text{H}(\text{p}, \text{p})$, $E=0.3\text{-}0.8$ MeV; deduced σ , Coulomb interaction effects. Trojan horse method. CONF Riken(Origin of Matter) Proc,P513,Pellegriti
- 2005SA06 NUCLEAR REACTIONS $^1\text{H}(\text{n}, \text{n})$, $E=194$ MeV; measured $\sigma(\theta)$. Tagged beam, comparisons with previous results and model predictions. JOUR PRLTA 94 082303
- 2005SE01 RADIOACTIVITY $^1\text{n}(\beta^-)$; measured $T_{1/2}$. Ultracold neutrons, comparison with previous results, model predictions. JOUR PYLBB 605 72
- 2005SE04 NUCLEAR REACTIONS $^1\text{H}(e, e)$, $E=1.9\text{-}4.7$ GeV; measured recoil proton spectra; deduced electromagnetic form factors. Comparison with spin-transfer measurements. JOUR ZAANE 24 s01 55

A=1 (continued)

- 2005SP01 NUCLEAR REACTIONS $^1\text{H}(\text{e}, \text{e}'\pi^0)$, $E=950$ MeV; measured E_p , $\sigma(\theta)$. ^1H deduced quadrupole to dipole amplitude ratios. JOUR PRLTA 94 022003
- 2005SP02 NUCLEAR REACTIONS $^1\text{H}(\text{polarized e}, \text{e})$, $E=200$ MeV; $^2\text{H}(\text{polarized e}, \text{e})$, $E=125, 200$ MeV; measured asymmetries; deduced form factors. JOUR ZAANE 24 s02 51
- 2005WU02 NUCLEAR REACTIONS $^1\text{H}(\gamma, \pi^+\pi^-)$, $E=0.5\text{-}2.6$ GeV; measured total σ , $\sigma(E, \theta)$; deduced ρ^0 -meson and Δ -baryon contributions. Tagged photons. JOUR ZAANE 23 317

A=2

- ^2n 2005AM05 NUCLEAR REACTIONS $^1\text{H}(\text{p-bar}, \text{ee}^+)$, $E(\text{cm}) \approx 3600$ MeV; measured $\psi(2\text{S})$ production associated invariant mass spectra, $\sigma(\theta)$; deduced helicity amplitude ratio. JOUR PYLBB 610 177
- ^2H 2004AZZX NUCLEAR REACTIONS $^9\text{Be}(\text{d}, \text{pX})$, E at 5 GeV / c; measured tensor analyzing power. ^2H deduced wave function features. REPT JINR-P1-2004-118,Azhgirey
- 2004BUZY NUCLEAR REACTIONS $^2\text{H}(\text{polarized n}, \text{n})$, $E=19.0$ MeV; measured $A_y(\theta)$. Comparison with model predictions. REPT TUNL-XLIII,P20,Buck
- 2004FOZZ NUCLEAR REACTIONS $^2\text{H}(\text{polarized n}, \text{n})$, $E=1.18, 5.0, 6.88, 19$ MeV; measured polarization, longitudinal cross-section difference. Polarized target. REPT TUNL-XLIII,P18,Foster
- 2005AB01 NUCLEAR REACTIONS $^1\text{H}(\text{p}, \text{p}\pi^+)$, (p, π^+) , $E=951$ MeV; measured missing mass spectra, σ ; deduced D-state effects. JOUR PYLBB 610 31
- 2005JE01 NUCLEAR REACTIONS $^2\text{H}(^9\text{Li}, ^9\text{Li})$, $(^9\text{Li}, \text{np})$, $(^9\text{Li}, \text{nX})$, $(^9\text{Li}, \text{pX})$, $E=2.36$ MeV / nucleon; measured particle spectra, $\sigma(\theta)$. $^2\text{H}(^9\text{Li}, \alpha\text{X})$, $(^9\text{Li}, ^6\text{HeX})$, $E=2.36$ MeV / nucleon; measured particle spectra. Post-accelerated radioactive beam. JOUR NUPAB 748 374
- 2005SA12 NUCLEAR REACTIONS $^3\text{He}(\text{e}, \text{e}'\text{p})$, $E=4.8$ GeV; measured $\sigma(E, \theta)$, asymmetries. ^3He deduced bound state momentum distributions. Comparisons with model predictions. JOUR ZAANE 24 s01 81
- 2005SP02 NUCLEAR REACTIONS $^1\text{H}(\text{polarized e}, \text{e})$, $E=200$ MeV; $^2\text{H}(\text{polarized e}, \text{e})$, $E=125, 200$ MeV; measured asymmetries; deduced form factors. JOUR ZAANE 24 s02 51

A=3

- ^3H 2004MIZR NUCLEAR REACTIONS $^4\text{He}(^{22}\text{O}, ^{23}\text{F})$, $E \approx 35$ MeV / nucleon; measured E_γ , I_γ , (particle) γ -coin. ^{23}F deduced levels, transitions. REPT CNS-REP-64,P269,Michimasa
- ^3He 2004CRZZ NUCLEAR REACTIONS $^3\text{He}(\text{polarized n}, \text{n})$, $E=4.02, 5.54$ MeV; measured $A_y(\theta)$. REPT TUNL-XLIII,P23,Crowe

A=3 (continued)

- 2004ZH42 NUCLEAR REACTIONS $^3\text{He}(\text{polarized } e, e)$, $E=1.2$ GeV; $^3\text{He}(\text{polarized } e, e'X)$, $E=5.7$ GeV; measured asymmetries. ^1n deduced spin asymmetries, polarized structure functions. Polarized target. JOUR PRVCA 70 065207
- 2005BE12 NUCLEAR REACTIONS $^3\text{He}(e, e'np)$, $E=\text{high}$; measured proton spectra, missing energy, $\sigma(E, \theta)$. ^3He deduced proton effective momentum density. JOUR PRLTA 94 082305
- 2005CE02 NUCLEAR REACTIONS $^3\text{H}(\text{p}, n)$, $E=1.2\text{-}2.3$ MeV; measured neutron spectra. JOUR NIMAE 540 430
- 2005HA07 NUCLEAR REACTIONS $^2\text{H}(\text{d}, n)$, E not given; measured E_n . Laser-generated plasma neutron source. JOUR NIMAE 540 464
- 2005LE04 NUCLEAR REACTIONS $\text{Pb}(\text{p}, X)^3\text{He} / ^4\text{He} / ^{21}\text{Ne} / ^{22}\text{Ne} / ^{36}\text{Ar} / ^{38}\text{Ar} / ^{78}\text{Kr} / ^{80}\text{Kr} / ^{81}\text{Kr} / ^{82}\text{Kr} / ^{83}\text{Kr} / ^{84}\text{Kr} / ^{85}\text{Kr} / ^{86}\text{Kr} / ^{124}\text{Xe} / ^{126}\text{Xe} / ^{128}\text{Xe} / ^{129}\text{Xe} / ^{130}\text{Xe} / ^{131}\text{Xe} / ^{132}\text{Xe} / ^{134}\text{Xe}$, $E=44\text{-}2595$ MeV; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1
- 2005ME03 NUCLEAR REACTIONS $^3\text{He}(\text{polarized } e, e'X)$, $E=0.862\text{-}5.058$ GeV; measured polarized σ ; deduced sum rule features. ^3He deduced spin structure functions. Polarized target. JOUR ZAANE 24 s01 153
- 2005MEZZ NUCLEAR REACTIONS $^1\text{H}(\text{polarized } d, \gamma)$, $E=55, 66.5, 90$ MeV / nucleon; measured E_γ , (particle) γ -coin, vector and tensor analyzing powers. Comparison with model predictions. PREPRINT nucl-ex/0501012,1/17/2005
- 2005SA12 NUCLEAR REACTIONS $^3\text{He}(e, e'p)$, $E=4.8$ GeV; measured $\sigma(E, \theta)$, asymmetries. ^3He deduced bound state momentum distributions. Comparisons with model predictions. JOUR ZAANE 24 s01 81
- 2005TUZZ NUCLEAR REACTIONS $^2\text{H}(^7\text{Li}, 2\alpha)$, $(^6\text{Li}, ^3\text{He}\alpha)$, $^6\text{Li}(^6\text{Li}, 2\alpha)$, E not given; measured particle spectra. $^7\text{Li}(\text{p}, \alpha)$, $E(\text{cm}) \approx 0.01\text{-}0.5$ MeV; $^6\text{Li}(\text{d}, \alpha)$, (p, α) , $E(\text{cm}) \approx 0.01\text{-}1$ MeV; deduced astrophysical S-factors. CONF Riken(Origin of Matter) Proc,P553,Tumino

A=4

- ^4He 2004SA61 NUCLEAR REACTIONS $^2\text{H}(\text{polarized } d, \gamma)$, $E<115$ keV; measured E_γ , I_γ , $\sigma(\theta)$, $A_\gamma(\theta)$, $T_{20}(\theta)$; deduced transition matrix elements. Comparison with resonating group model predictions. JOUR PRVCA 70 064601
- 2005BR04 NUCLEAR REACTIONS $^3\text{He}(^3\text{He}, 2p)$, $E(\text{cm}) \approx 10\text{-}1000$ keV; $^{14}\text{N}(\text{p}, \gamma)$, $E \approx 0.1\text{-}2.5$ MeV; measured astrophysical S-factors. JOUR NPBSE 143 60
- 2005LE04 NUCLEAR REACTIONS $\text{Pb}(\text{p}, X)^3\text{He} / ^4\text{He} / ^{21}\text{Ne} / ^{22}\text{Ne} / ^{36}\text{Ar} / ^{38}\text{Ar} / ^{78}\text{Kr} / ^{80}\text{Kr} / ^{81}\text{Kr} / ^{82}\text{Kr} / ^{83}\text{Kr} / ^{84}\text{Kr} / ^{85}\text{Kr} / ^{86}\text{Kr} / ^{124}\text{Xe} / ^{126}\text{Xe} / ^{128}\text{Xe} / ^{129}\text{Xe} / ^{130}\text{Xe} / ^{131}\text{Xe} / ^{132}\text{Xe} / ^{134}\text{Xe}$, $E=44\text{-}2595$ MeV; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1

A=4 (continued)

- 2005TUZZ NUCLEAR REACTIONS $^2\text{H}(^7\text{Li}, 2\alpha)$, $(^6\text{Li}, ^3\text{He}\alpha)$, $^6\text{Li}(^6\text{Li}, 2\alpha)$, E not given; measured particle spectra. $^7\text{Li}(p, \alpha)$, $E(\text{cm}) \approx 0.01\text{-}0.5$ MeV; $^6\text{Li}(d, \alpha)$, (p, α) , $E(\text{cm}) \approx 0.01\text{-}1$ MeV; deduced astrophysical S-factors. CONF Riken(Origin of Matter) Proc,P553,Tumino

A=5

- ^5H 2004G054 NUCLEAR REACTIONS $^3\text{H}(t, p)$, $E=58$ MeV; measured E_n , E_p , missing mass spectrum following residual nucleus decay. ^5H deduced levels, J , π . JOUR PRLTA 93 262501
- ^5Li 2003G041 NUCLEAR REACTIONS $^3\text{He}(\alpha, dt)$, $E=67.2$ MeV; measured particle spectra, dt-coin. ^5Li deduced excited states energies, widths. JOUR UKPJA 48 1035

A=6

- ^6Li 2004G056 NUCLEAR REACTIONS $^3\text{H}(\alpha, d\alpha)$, $E=67.2$ MeV; measured E_d , E_α , $d\alpha$ -coin, $\sigma(\theta)$. ^6Li deduced levels, widths. JOUR UKPJA 49 16

A=7

- ^7Li 2005GI03 NUCLEAR REACTIONS $^{10}\text{B}(n, \alpha)$, $E=1.5\text{-}3.8$ MeV; measured σ , $\sigma(\theta)$. Effects of particle leaking discussed. JOUR NIMAE 538 550
- 2005SI02 NUCLEAR REACTIONS $^1\text{H}(^7\text{Li}, p)$, $E=2.28\text{-}5.7$ MeV; measured recoil proton spectra, $\sigma(\theta=30, 45^\circ)$. Al-backed melamine target. JOUR NIMBE 229 180
- 2005ZH09 RADIOACTIVITY $^7\text{Be}(\text{EC})$; measured decay rates for source implanted in Pd and Au. JOUR CPLEE 22 565
- ^7Be 2004NA42 NUCLEAR REACTIONS $^4\text{He}(^3\text{He}, \gamma)$, $E=1000\text{-}2300$ keV; measured capture σ ; deduced S-factors. Activation technique, astrophysical implications discussed. JOUR PRLTA 93 262503
- 2005BU05 NUCLEAR REACTIONS $^7\text{Li}(p, n)$, $E=1.88\text{-}2.0$ MeV; measured neutron spectra, yields. JOUR NIMBE 229 144
- 2005ZH09 RADIOACTIVITY $^7\text{Be}(\text{EC})$; measured decay rates for source implanted in Pd and Au. JOUR CPLEE 22 565

A=8

- ^8Be 2004AHZW NUCLEAR REACTIONS $^7\text{Li}(\text{polarized } d, n)$, $E=160$ keV; measured $\sigma(\theta)$, vector and tensor analyzing powers; deduced transition matrix elements. REPT TUNL-XLIII,P28,Ahmed
- 2004FR34 NUCLEAR REACTIONS $^{12}\text{C}(^{12}\text{C}, ^8\text{Be})$, $E=82\text{-}120$ MeV; measured excitation energy spectra, angular correlations. ^{16}O deduced levels, J , π . Comparison with model predictions. JOUR PRVCA 70 064311

A=8 (continued)

	2005RU03	NUCLEAR REACTIONS $^{12}\text{C}(^{11}\text{B}, ^{15}\text{N})$, $E=49$ MeV; measured $\sigma(E, \theta)$; $^{12}\text{C}(^{11}\text{B}, ^8\text{Be})$, $E(\text{cm})=10\text{-}17$ MeV; analyzed $\sigma(E, \theta)$; deduced reaction mechanism features, optical model parameters. Coupled channels analysis. JOUR ZAAANE 23 445
^8B	2004REZY	NUCLEAR REACTIONS $^1\text{H}(^{11}\text{C}, \text{p})$, $(^{11}\text{C}, \alpha)$, $E^*=8.7\text{-}9.9$ MeV; measured particle spectra, angular distributions, σ . $^8\text{Be}(\alpha, \text{p})$, $E^*=8.7\text{-}9.9$ MeV; deduced excitation function, astrophysical reaction rates. REPT ANL-04/22,P3,Rehm
	2005JU03	NUCLEAR REACTIONS $^7\text{Be}(\text{p}, \gamma)$, $E(\text{cm})=116\text{-}2460$ MeV; measured σ ; deduced astrophysical S-factors. Comparison with previous results. JOUR NPBSE 138 112

A=9

^9Li	2005JE01	NUCLEAR REACTIONS $^2\text{H}(^9\text{Li}, ^9\text{Li})$, $(^9\text{Li}, \text{np})$, $(^9\text{Li}, \text{nX})$, $(^9\text{Li}, \text{pX})$, $E=2.36$ MeV / nucleon; measured particle spectra, $\sigma(\theta)$. $^2\text{H}(^9\text{Li}, \alpha\text{X})$, $(^9\text{Li}, ^6\text{HeX})$, $E=2.36$ MeV / nucleon; measured particle spectra. Post-accelerated radioactive beam. JOUR NUPAB 748 374
	2005WU03	NUCLEAR REACTIONS $^2\text{H}(^8\text{Li}, \text{p})$, $E \approx 76$ MeV; measured E_p , excitation energy spectra, $\sigma(\theta)$. ^9Li deduced levels, J , π , spectroscopic factors. Comparison with model predictions. JOUR PRLTA 94 082502
^9Be	2005YE01	NUCLEAR REACTIONS $^9\text{Be}(^6\text{He}, ^6\text{He})$, $E=25$ MeV / nucleon; measured quasielastic $\sigma(\theta)$; deduced optical model parameters, inelastic channels contribution. JOUR PRVCA 71 014604

A=10

^{10}Li	2005SA03	NUCLEAR REACTIONS $^{10}\text{B}(\pi^-, \text{K}^+)$, ^{10}B , $^{12}\text{C}(\pi^+, \text{K}^+)$, E at 1.05, 1.2 GeV / c; measured missing mass spectra, hypernucleus production σ . JOUR PRLTA 94 052502
^{10}Be	2004MIZS	NUCLEAR REACTIONS $\text{Fe}(\text{p}, \text{X})^{52}\text{Mn}$, $E < 2.6$ GeV; $\text{Pb}(\text{p}, \text{X})^{10}\text{Be}$, $E < 2.6$ GeV; $^{209}\text{Bi}(\text{p}, 4\text{np})$, $E < 2.6$ GeV; $\text{Pb}(\text{n}, \text{X})^{196}\text{Au} / ^{95}\text{Zr}$, $E \approx 70\text{-}180$ MeV; measured excitation functions. Comparison with model predictions. REPT NEA/NSC/DOC(2004)14,P28,Michel
	2005HI03	RADIOACTIVITY $^{11}\text{Li}(\beta^-)$, $(\beta^- \text{n})$; measured β -delayed E_γ , E_n , asymmetry following decay of spin-polarized source. $^{10,11}\text{Be}$ deduced levels, J , π , S-factors. Comparison with antisymmetrized molecular dynamics model predictions. JOUR PYLBB 611 239

A=11

^{11}Li	2005HI03	RADIOACTIVITY $^{11}\text{Li}(\beta^-)$, $(\beta^- \text{n})$; measured β -delayed E_γ , E_n , asymmetry following decay of spin-polarized source. $^{10,11}\text{Be}$ deduced levels, J , π , S-factors. Comparison with antisymmetrized molecular dynamics model predictions. JOUR PYLBB 611 239
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A=11 (continued)

¹¹ Be	2005HI03	RADIOACTIVITY ¹¹ Li(β^-), (β^- n); measured β -delayed E γ , En, asymmetry following decay of spin-polarized source. ^{10,11} Be deduced levels, J, π , S-factors. Comparison with antisymmetrized molecular dynamics model predictions. JOUR PYLBB 611 239
¹¹ B	2004REZY	NUCLEAR REACTIONS ¹ H(¹¹ C, p), (¹¹ C, α), E*=8.7-9.9 MeV; measured particle spectra, angular distributions, σ . ⁸ Be(α , p), E*=8.7-9.9 MeV; deduced excitation function, astrophysical reaction rates. REPT ANL-04/22,P3,Rehm
	2005ISZZ	NUCLEAR REACTIONS ⁴ He(⁸ Li, n), E=14.6 MeV; ⁴ He(¹⁶ N, n), E=32 MeV; measured En, excitation energy spectra. ¹⁶ N(α , n), E(cm) \approx 1-4.5 MeV; ⁸ Li(α , n), E \approx 0.5-3 MeV; deduced excitation functions. CONF Riken(Origin of Matter) Proc,P316,Ishiyama
	2005M004	NUCLEAR REACTIONS ¹² C(e, e'p), E=379-585 MeV; measured excitation energy spectra, momentum distributions; deduced longitudinal and transverse response functions. ¹² C(e, e'p), E=379-585 MeV; ¹² C(γ , p), E=61.8, 71.6 MeV; analyzed transverse reduced σ , role of two-body currents. JOUR PRVCA 71 014607
	2005PR02	NUCLEAR REACTIONS ⁴ He, ¹² C(polarized e, e'p), E=2.261, 4.461 GeV; measured single spin azimuthal asymmetries vs missing momentum, missing energy; deduced final state interaction effects. Comparisons with model predictions. JOUR NUPAB 748 357
¹¹ C	2004REZY	NUCLEAR REACTIONS ¹ H(¹¹ C, p), (¹¹ C, α), E*=8.7-9.9 MeV; measured particle spectra, angular distributions, σ . ⁸ Be(α , p), E*=8.7-9.9 MeV; deduced excitation function, astrophysical reaction rates. REPT ANL-04/22,P3,Rehm

A=12

¹² B	2005GA09	NUCLEAR REACTIONS ⁹ Be, ¹² C(e, e'K ⁺), E=4 GeV; measured hypernucleus production associated missing energy spectra. JOUR ZAANE 24 s01 91
	2005KA06	NUCLEAR REACTIONS ¹ H(¹⁷ B, X) ¹⁷ B / ¹⁵ B / ¹⁴ B / ¹³ B / ¹² B, E \approx 43 MeV / nucleon; measured E γ , I γ , (particle) γ -coin, relative yields. ^{15,17} B deduced levels, J, π . Comparison with model predictions. JOUR PYLBB 608 206
¹² C	2005SA03	NUCLEAR REACTIONS ¹⁰ B(π^- , K ⁺), ¹⁰ B, ¹² C(π^+ , K ⁺), E at 1.05, 1.2 GeV / c; measured missing mass spectra, hypernucleus production σ . JOUR PRLTA 94 052502
	2005SA04	NUCLEAR REACTIONS ¹² C, ²⁸ Si, ²⁷ Al, Fe(π^+ , K ⁺), E at 1.06 GeV / c; measured hypernucleus mass spectra, pion and proton spectra following hypernucleus decay. ¹² C, ²⁸ Si, ²⁷ Al, Fe deduced mesonic and nonmesonic hypernucleus decay widths. Comparison with model predictions. JOUR PRVCA 71 025203

A=13

- ¹³B 2005KA06 NUCLEAR REACTIONS ¹H(¹⁷B, X)¹⁷B / ¹⁵B / ¹⁴B / ¹³B / ¹²B, E ≈ 43 MeV / nucleon; measured E_γ, I_γ, (particle)γ-coin, relative yields. ^{15,17}B deduced levels, J, π. Comparison with model predictions. JOUR PYLBB 608 206

A=14

- ¹⁴B 2005KA06 NUCLEAR REACTIONS ¹H(¹⁷B, X)¹⁷B / ¹⁵B / ¹⁴B / ¹³B / ¹²B, E ≈ 43 MeV / nucleon; measured E_γ, I_γ, (particle)γ-coin, relative yields. ^{15,17}B deduced levels, J, π. Comparison with model predictions. JOUR PYLBB 608 206

A=15

- ¹⁵B 2005KA06 NUCLEAR REACTIONS ¹H(¹⁷B, X)¹⁷B / ¹⁵B / ¹⁴B / ¹³B / ¹²B, E ≈ 43 MeV / nucleon; measured E_γ, I_γ, (particle)γ-coin, relative yields. ^{15,17}B deduced levels, J, π. Comparison with model predictions. JOUR PYLBB 608 206
- ¹⁵C 2005NAZZ NUCLEAR REACTIONS Pb(¹⁵C, n¹⁴C), E=68 MeV / nucleon; measured dissociation σ, relative energy spectra. ¹⁴C(n, γ), E(cm)=0-2.7 MeV; deduced σ. CONF Riken(Origin of Matter) Proc,P155,Nakamura
- ¹⁵N 2004HAZR NUCLEAR REACTIONS ¹⁶O(e, e'p), E=199.53 MeV; measured σ(E, θ), missing momentum spectra. JOUR KKYHB 37 1
- 2005K002 NUCLEAR REACTIONS ¹⁶O(p, 2p), E=392 MeV; measured E_p, E_γ, pp-, pγ-coin. ¹⁵N levels deduced γ-emission probabilities. JOUR NPBSE 139 72
- 2005RU03 NUCLEAR REACTIONS ¹²C(¹¹B, ¹⁵N), E=49 MeV; measured σ(E, θ); ¹²C(¹¹B, ⁸Be), E(cm)=10-17 MeV; analyzed σ(E, θ); deduced reaction mechanism features, optical model parameters. Coupled channels analysis. JOUR ZAANE 23 445
- ¹⁵O 2005BR04 NUCLEAR REACTIONS ³He(³He, 2p), E(cm) ≈ 10-1000 keV; ¹⁴N(p, γ), E ≈ 0.1-2.5 MeV; measured astrophysical S-factors. JOUR NPBSE 143 60
- 2005RU04 NUCLEAR REACTIONS ¹⁴N(p, γ), E=155-524 keV; measured E_γ, excitation function; deduced S-factor. R-matrix analysis, astrophysical implications discussed. JOUR PRLTA 94 082503

A=16

- ¹⁶C 2004AS13 NUCLEAR REACTIONS C(¹⁶C, X), E=46 MeV / nucleon; measured particle spectra, breakup and neutron removal σ; deduced reaction mechanism features. ¹⁶C deduced no ground-state cluster structure. Comparison with model predictions. JOUR PRVCA 70 064607
- ¹⁶N 2004TAZW RADIOACTIVITY ¹⁶N(β⁻) [from ²H(¹⁵N, n)]; measured β-delayed E_α. Gas-filled ionization chambers. REPT ANL-04/22,P5,Tang

A=16 (continued)

¹⁶ O	2004FR34	NUCLEAR REACTIONS ¹² C(¹² C, ²⁸ Be), E=82-120 MeV; measured excitation energy spectra, angular correlations. ¹⁶ O deduced levels, J, π . Comparison with model predictions. JOUR PRVCA 70 064311
	2004PE24	NUCLEAR REACTIONS ¹⁶ O(polarized γ , γ'), E=25-40 MeV; measured polarization asymmetries; deduced resonance features. JOUR PRVCA 70 064305
	2004TAZW	RADIOACTIVITY ¹⁶ N(β^-) [from ² H(¹⁵ N, n)]; measured β -delayed E α . Gas-filled ionization chambers. REPT ANL-04/22,P5,Tang
	2005SHZZ	NUCLEAR REACTIONS ¹² C(α , γ), E(cm)=1.3, 1.5 MeV; measured E1 and E2 σ , $\sigma(\theta)$. ¹² C(α , γ), E(cm) \approx 1000-3000 keV; analyzed data; deduced astrophysical S-factors. CONF Riken(Origin of Matter) Proc,P217,Shima

A=17

¹⁷ B	2005KA06	NUCLEAR REACTIONS ¹ H(¹⁷ B, X) ¹⁷ B / ¹⁵ B / ¹⁴ B / ¹³ B / ¹² B, E \approx 43 MeV / nucleon; measured E γ , I γ , (particle) γ -coin, relative yields. ^{15,17} B deduced levels, J, π . Comparison with model predictions. JOUR PYLBB 608 206
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A=18

¹⁸ F	2004FOZY	NUCLEAR REACTIONS ¹⁷ O(p, γ), E=185-215 keV; measured E γ , I γ ; deduced excitation function. ¹⁸ F deduced resonance strengths. Astrophysical implications discussed. REPT TUNL-XLIII,P32,Fox
	2005FI01	NUCLEAR REACTIONS ¹ H(¹⁷ O, γ), E=12.5 MeV; measured particle spectra; deduced resonance strength. Recoil separator, other reactions discussed. JOUR NUPAB 748 351
	2005HE04	NUCLEAR REACTIONS ¹⁸ O(p, n), E=2582 keV; measured neutron spectrum. ¹³⁸ Ba(n, γ), E=spectrum; measured Maxwellian-averaged σ . JOUR PRVCA 71 025803
¹⁸ Ne	2004SIZX	NUCLEAR REACTIONS ¹ H(²¹ Na, α), E \approx 113 MeV; measured E α , $\sigma(E, \theta)$, (¹⁸ Ne) α -coin. ¹⁸ Ne(α , p), E(cm) \approx 2.5 MeV; deduced angle-integrated σ . REPT ANL-04/22,P8,Sinha

A=19

¹⁹ F	2005ISZZ	NUCLEAR REACTIONS ⁴ He(⁸ Li, n), E=14.6 MeV; ⁴ He(¹⁶ N, n), E=32 MeV; measured En, excitation energy spectra. ¹⁶ N(α , n), E(cm) \approx 1-4.5 MeV; ⁸ Li(α , n), E \approx 0.5-3 MeV; deduced excitation functions. CONF Riken(Origin of Matter) Proc,P316,Ishiyama
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A=20

- ²⁰Ne 2005ST09 NUCLEAR REACTIONS ¹²C(¹²C, α), E=34.7 MeV; ¹²C(¹⁶O, α), E=38.5 MeV; measured Eα, Eγ, Iγ(θ, t), αγ-coin; Gd(²⁴Mg, ²⁴Mg'), E=165 MeV; measured Eγ, Iγ(θ, t), (particle)γ-coin; deduced transient field strengths. JOUR PYLBB 611 81

A=21

- ²¹Ne 2005LE04 NUCLEAR REACTIONS Pb(p, X)³He / ⁴He / ²¹Ne / ²²Ne / ³⁶Ar / ³⁸Ar / ⁷⁸Kr / ⁸⁰Kr / ⁸¹Kr / ⁸²Kr / ⁸³Kr / ⁸⁴Kr / ⁸⁵Kr / ⁸⁶Kr / ¹²⁴Xe / ¹²⁶Xe / ¹²⁸Xe / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³⁴Xe, E=44-2595 MeV; measured production σ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1
- ²¹Na 2004SIZX NUCLEAR REACTIONS ¹H(²¹Na, α), E ≈ 113 MeV; measured Eα, σ(E, θ), (¹⁸Ne)α-coin. ¹⁸Ne(α, p), E(cm) ≈ 2.5 MeV; deduced angle-integrated σ. REPT ANL-04/22,P8,Sinha
- 2005RU01 NUCLEAR REACTIONS ¹H(²¹Na, p), E=580-1560 keV / nucleon; measured elastic and inelastic recoil proton spectra, σ(θ). ²²Mg deduced resonance energies, widths, J, π, analog states. ²¹Na(p, γ), E=low; calculated reaction rate. R-matrix analysis. JOUR PRVCA 71 025802

A=22

- ²²O 2004BEZP NUCLEAR REACTIONS ¹H(²²O, p), (²²O, ²²O'), E ≈ 47 MeV / nucleon; measured particle spectra, σ(E, θ). ²²O level deduced deformation parameter. MUST detector array. REPT IPNO-T-04-17,Becheva
- ²²Ne 2005LE04 NUCLEAR REACTIONS Pb(p, X)³He / ⁴He / ²¹Ne / ²²Ne / ³⁶Ar / ³⁸Ar / ⁷⁸Kr / ⁸⁰Kr / ⁸¹Kr / ⁸²Kr / ⁸³Kr / ⁸⁴Kr / ⁸⁵Kr / ⁸⁶Kr / ¹²⁴Xe / ¹²⁶Xe / ¹²⁸Xe / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³⁴Xe, E=44-2595 MeV; measured production σ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1
- ²²Mg 2004SEZX NUCLEAR REACTIONS ¹²C(¹²C, 2n), E not given; measured Eγ, Iγ, (recoil)γ-coin. ²²Mg deduced levels, J, π, mass excess. Gammasphere array, mass separator. REPT ANL-04/22,P12,Seweryniak
- 2005HEZZ NUCLEAR REACTIONS ¹H(²²Mg, p), E(cm) ≈ 0.5-3.5 MeV; measured proton spectrum. ²³Al deduced levels, J, π. CONF Riken(Origin of Matter) Proc,P481,He
- 2005RU01 NUCLEAR REACTIONS ¹H(²¹Na, p), E=580-1560 keV / nucleon; measured elastic and inelastic recoil proton spectra, σ(θ). ²²Mg deduced resonance energies, widths, J, π, analog states. ²¹Na(p, γ), E=low; calculated reaction rate. R-matrix analysis. JOUR PRVCA 71 025802

A=22 (continued)

- 2005SE02 NUCLEAR REACTIONS $^{12}\text{C}(^{12}\text{C}, 2\text{n})$, E=52 MeV; measured E_γ , I_γ , (recoil) γ -coin. ^{22}Mg deduced levels, J, π , mass excess. Implications for astrophysical reaction rate discussed. Gammasphere array. JOUR PRLTA 94 032501
- 2005SHZY NUCLEAR REACTIONS ^{24}Mg , $^{28}\text{Si}(\alpha, ^6\text{He})$, E=205 MeV; measured excitation energy spectra. ^{22}Mg , ^{26}Si deduced resonance energies. Astrophysical implications discussed. CONF Riken(Origin of Matter) Proc,P367,Shimizu

A=23

- ^{23}O 2005N001 NUCLEAR REACTIONS $\text{Pb}(^{23}\text{O}, \text{n}^{22}\text{O})$, E=422 MeV / nucleon; measured E_n , E_γ , I_γ , (fragment) γ -, $\text{n}\gamma$ -coin, $\sigma(E)$; deduced final-state interaction effects. ^{23}O deduced ground state J, π , configuration, spectroscopic factor. JOUR PYLBB 605 79
- ^{23}F 2004MIZR NUCLEAR REACTIONS $^4\text{He}(^{22}\text{O}, ^{23}\text{F})$, E \approx 35 MeV / nucleon; measured E_γ , I_γ , (particle) γ -coin. ^{23}F deduced levels, transitions. REPT CNS-REP-64,P269,Michimasa
- ^{23}Ne 2005K001 NUCLEAR REACTIONS $^{13}\text{C}(^{18}\text{O}, ^8\text{Be})$, $(^{18}\text{O}, 2\alpha)$, E=100 MeV; $^{24}\text{Mg}(^{28}\text{Si}, ^{12}\text{C})$, $(^{28}\text{Si}, 3\alpha)$, E=130 MeV; measured particle spectra, E_γ , I_γ , (particle) γ -coin; deduced cluster emission features. GASP, ISIS arrays. JOUR ZAANE 23 19
- ^{23}Na 2004V021 NUCLEAR REACTIONS $^{22}\text{Ne}(\text{p}, \gamma)$, E=840-2220 keV; measured E_γ , I_γ , excitation function. ^{23}Na deduced levels, J, π , IAS features. Comparison with model predictions. JOUR BRSPE 68 210
- 2005BE03 RADIOACTIVITY ^{23}Na , ^{127}I ; measured $T_{1/2}$ lower limits for spontaneous decay to superdense state; deduced potential barrier features. NaI detectors. JOUR ZAANE 23 7
- ^{23}Mg 2005TEZZ NUCLEAR REACTIONS $^1\text{H}(^{23}\text{Mg}, \text{p})$, $(^{24}\text{Mg}, \text{p})$, E(cm) \approx 0.5-3.5 MeV; measured excitation functions, $\sigma(\theta)$; deduced resonance features. CONF Riken(Origin of Matter) Proc,P361,Teranishi
- ^{23}Al 2005HEZZ NUCLEAR REACTIONS $^1\text{H}(^{22}\text{Mg}, \text{p})$, E(cm) \approx 0.5-3.5 MeV; measured proton spectrum. ^{23}Al deduced levels, J, π . CONF Riken(Origin of Matter) Proc,P481,He

A=24

- ^{24}Ne 2004KRZX NUCLEAR REACTIONS $^{27}\text{Al}(\text{n}, \text{n}3\text{p})$, ^{59}Co , ^{139}La , ^{129}I , ^{197}Au , $^{237}\text{Np}(\text{n}, \gamma)$, ^{59}Co , $^{127,129}\text{I}$, ^{197}Au , $^{209}\text{Bi}(\text{n}, \text{xn})$, $^{235,238}\text{U}(\text{n}, \text{F})$, E=spectrum; measured yields; deduced reaction rates. $\text{Pb}(\text{p}, \text{nX})$, E=1.5 GeV; deduced neutron spectrum. REPT JINR-E1-2004-79,Krivopustov
- ^{24}Mg 2005ST09 NUCLEAR REACTIONS $^{12}\text{C}(^{12}\text{C}, \alpha)$, E=34.7 MeV; $^{12}\text{C}(^{16}\text{O}, \alpha)$, E=38.5 MeV; measured E_α , E_γ , $I_\gamma(\theta, \text{t})$, $\alpha\gamma$ -coin; $\text{Gd}(^{24}\text{Mg}, ^{24}\text{Mg}')$, E=165 MeV; measured E_γ , $I_\gamma(\theta, \text{t})$, (particle) γ -coin; deduced transient field strengths. JOUR PYLBB 611 81

A=24 (continued)

2005TEZZ NUCLEAR REACTIONS $^1\text{H}(^{23}\text{Mg}, \text{p})$, $(^{24}\text{Mg}, \text{p})$, $E(\text{cm}) \approx 0.5\text{-}3.5$ MeV; measured excitation functions, $\sigma(\theta)$; deduced resonance features. CONF Riken(Origin of Matter) Proc,P361,Teranishi

A=25

^{25}Al 2005MOZZ NUCLEAR REACTIONS $^1\text{H}(^{25}\text{Al}, \text{p})$, $E(\text{cm}) \approx 0.5\text{-}3.44$ MeV / nucleon; $^1\text{H}(^{26}\text{Si}, \text{p})$, $E(\text{cm}) \approx 0.5\text{-}3.95$ MeV / nucleon; measured excitation functions; deduced resonance features. Thick target. CONF Riken(Origin of Matter) Proc,P505,Moon

A=26

^{26}Mg 2005SC01 RADIOACTIVITY $^{26m}\text{Al}(\beta^+)$ [from $^{27}\text{Al}(\gamma, \text{n})$]; measured $T_{1/2}$. JOUR NIMAE 539 191

^{26}Al 2005SC01 RADIOACTIVITY $^{26m}\text{Al}(\beta^+)$ [from $^{27}\text{Al}(\gamma, \text{n})$]; measured $T_{1/2}$. JOUR NIMAE 539 191

^{26}Si 2004PA42 NUCLEAR REACTIONS $^{24}\text{Mg}(^3\text{He}, \text{n})$, $E=7.9, 8.11, 10.0$ MeV; measured E_n , $\sigma(\theta)$. ^{26}Si deduced levels, J , π . $^{25}\text{Al}(\text{p}, \gamma)$, $E=\text{low}$; calculated astrophysical reaction rates. JOUR PRVCA 70 065805

2005MOZZ NUCLEAR REACTIONS $^1\text{H}(^{25}\text{Al}, \text{p})$, $E(\text{cm}) \approx 0.5\text{-}3.44$ MeV / nucleon; $^1\text{H}(^{26}\text{Si}, \text{p})$, $E(\text{cm}) \approx 0.5\text{-}3.95$ MeV / nucleon; measured excitation functions; deduced resonance features. Thick target. CONF Riken(Origin of Matter) Proc,P505,Moon

2005SHZY NUCLEAR REACTIONS ^{24}Mg , $^{28}\text{Si}(\alpha, ^6\text{He})$, $E=205$ MeV; measured excitation energy spectra. ^{22}Mg , ^{26}Si deduced resonance energies. Astrophysical implications discussed. CONF Riken(Origin of Matter) Proc,P367,Shimizu

A=27

^{27}Al 2005SA04 NUCLEAR REACTIONS ^{12}C , ^{28}Si , ^{27}Al , $\text{Fe}(\pi^+, \text{K}^+)$, E at 1.06 GeV / c ; measured hypernucleus mass spectra, pion and proton spectra following hypernucleus decay. ^{12}C , ^{28}Si , ^{27}Al , Fe deduced mesonic and nonmesonic hypernucleus decay widths. Comparison with model predictions. JOUR PRVCA 71 025203

^{27}P 2005TOZZ NUCLEAR REACTIONS $^{208}\text{Pb}(^{27}\text{P}, \text{p}^{26}\text{Si})$, $E=57$ MeV / nucleon; measured relative energy spectrum, $\sigma(E)$. ^{27}P deduced gamma decay width of first excited state. CONF Riken(Origin of Matter) Proc,P549,Togano

A=28

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|------------------|----------|--|
| ^{28}Si | 2005SA04 | NUCLEAR REACTIONS ^{12}C , ^{28}Si , ^{27}Al , $\text{Fe}(\pi^+, \text{K}^+)$, E at 1.06 GeV / c; measured hypernucleus mass spectra, pion and proton spectra following hypernucleus decay. ^{12}C , ^{28}Si , ^{27}Al , Fe deduced mesonic and nonmesonic hypernucleus decay widths. Comparison with model predictions. JOUR PRVCA 71 025203 |
| | 2005WE01 | NUCLEAR REACTIONS $^{12}\text{C}(^{29}\text{P}, ^{28}\text{SiX})$, E=30.7 MeV / nucleon; measured fragments parallel momentum distribution. ^{28}Si , ^{29}P deduced particle density distributions, related features. Glauber model and Skyrme-Hartree-Fock calculations. JOUR CPLEE 22 61 |

A=29

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|-----------------|----------|--|
| ^{29}P | 2005WE01 | NUCLEAR REACTIONS $^{12}\text{C}(^{29}\text{P}, ^{28}\text{SiX})$, E=30.7 MeV / nucleon; measured fragments parallel momentum distribution. ^{28}Si , ^{29}P deduced particle density distributions, related features. Glauber model and Skyrme-Hartree-Fock calculations. JOUR CPLEE 22 61 |
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A=30

No references found

A=31

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| ^{31}Mg | 2005NE01 | RADIOACTIVITY $^{31}\text{Mg}(\beta^-)$ [from U(p, X)]; measured β -asymmetry, β -NMR spectra from polarized source. ^{31}Mg deduced ground-state J, π , μ . JOUR PRLTA 94 022501 |
| ^{31}Al | 2005NE01 | RADIOACTIVITY $^{31}\text{Mg}(\beta^-)$ [from U(p, X)]; measured β -asymmetry, β -NMR spectra from polarized source. ^{31}Mg deduced ground-state J, π , μ . JOUR PRLTA 94 022501 |
| ^{31}P | 2004V022 | NUCLEAR REACTIONS $^{30}\text{Si}(\text{p}, \gamma)$, E=1750-1905 keV; measured $\text{E}\gamma$, $\text{I}\gamma$, excitation function. ^{31}P deduced levels, J, π , B(M1), IAR features. JOUR BRSPE 68 218 |

A=32

No references found

A=33

No references found

A=34

- ³⁴S 2005MA03 NUCLEAR REACTIONS ²⁴Mg(¹⁶O, 2pα), E=70 MeV; measured E_γ, I_γ, γγ-, (charged particle)γ-coin, DSA. ³⁴S deduced high-spin levels, J, π, T_{1/2}, B(M1), B(E2). Comparison with shell model calculations. JOUR PRVCA 71 014316

A=35

No references found

A=36

- ³⁶Ar 2005LE04 NUCLEAR REACTIONS Pb(p, X)³He / ⁴He / ²¹Ne / ²²Ne / ³⁶Ar / ³⁸Ar / ⁷⁸Kr / ⁸⁰Kr / ⁸¹Kr / ⁸²Kr / ⁸³Kr / ⁸⁴Kr / ⁸⁵Kr / ⁸⁶Kr / ¹²⁴Xe / ¹²⁶Xe / ¹²⁸Xe / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³⁴Xe, E=44-2595 MeV; measured production σ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1

A=37

- ³⁷Cl 2005HE03 RADIOACTIVITY ³⁷K(β⁺); ³⁷Ar(EC); measured T_{1/2}. JOUR NJOPF 7 44
- ³⁷Ar 2005HE03 RADIOACTIVITY ³⁷K(β⁺); ³⁷Ar(EC); measured T_{1/2}. JOUR NJOPF 7 44
- 2005HE03 ATOMIC MASSES ³⁷K, ³⁷Ar; measured masses. Penning trap spectrometer. JOUR NJOPF 7 44
- ³⁷K 2005HE03 RADIOACTIVITY ³⁷K(β⁺); ³⁷Ar(EC); measured T_{1/2}. JOUR NJOPF 7 44
- 2005HE03 ATOMIC MASSES ³⁷K, ³⁷Ar; measured masses. Penning trap spectrometer. JOUR NJOPF 7 44

A=38

- ³⁸Ar 2005LE04 NUCLEAR REACTIONS Pb(p, X)³He / ⁴He / ²¹Ne / ²²Ne / ³⁶Ar / ³⁸Ar / ⁷⁸Kr / ⁸⁰Kr / ⁸¹Kr / ⁸²Kr / ⁸³Kr / ⁸⁴Kr / ⁸⁵Kr / ⁸⁶Kr / ¹²⁴Xe / ¹²⁶Xe / ¹²⁸Xe / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³⁴Xe, E=44-2595 MeV; measured production σ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1

A=39

No references found

A=40

⁴⁰Ca 2005K001 NUCLEAR REACTIONS ¹³C(¹⁸O, ⁸Be), (¹⁸O, 2 α), E=100 MeV; ²⁴Mg(²⁸Si, ¹²C), (²⁸Si, 3 α), E=130 MeV; measured particle spectra, E γ , I γ , (particle) γ -coin; deduced cluster emission features. GASP, ISIS arrays. JOUR ZAANE 23 19

A=41

No references found

A=42

⁴²Ca 2004KMZZ NUCLEAR REACTIONS ²⁸Si(¹⁸O, α), E=105 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ⁴⁶Ti deduced GDR strength distribution. ⁴²Ca deduced rotational band feeding intensities. Euroball IV, Hector arrays. PREPRINT nucl-ex/0412046,12/21/2004

A=43

No references found

A=44

No references found

A=45

No references found

A=46

⁴⁶Ca 2005TA02 NUCLEAR REACTIONS C(⁴⁶Ca, ⁴⁶Ca'), E=95 MeV; measured E γ , I γ (θ , H, t), (particle) γ -coin following projectile Coulomb excitation. ⁴⁶Ca level deduced g-factor, configuration. Transient field technique, comparisons with neighboring isotopes. JOUR PYLBB 605 265

⁴⁶Ti 2004KMZZ NUCLEAR REACTIONS ²⁸Si(¹⁸O, α), E=105 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ⁴⁶Ti deduced GDR strength distribution. ⁴²Ca deduced rotational band feeding intensities. Euroball IV, Hector arrays. PREPRINT nucl-ex/0412046,12/21/2004

⁴⁶V 2004ONZZ RADIOACTIVITY ⁴⁶Cr(EC) [from Be(⁵⁰Cr, X)]; measured E γ , I γ , $\beta\gamma$ -coin, T_{1/2}; deduced Gamow-Teller transition, branching ratio, log ft. ⁴⁶V deduced β -feeding intensity. Comparison with model predictions. REPT CNS-REP-64,P235,Onishi

A=46 (continued)

⁴⁶Cr 20040NZZ RADIOACTIVITY ⁴⁶Cr(EC) [from Be(⁵⁰Cr, X)]; measured E γ , I γ , $\beta\gamma$ -coin, T_{1/2}; deduced Gamow-Teller transition, branching ratio, log ft. ⁴⁶V deduced β -feeding intensity. Comparison with model predictions. REPT CNS-REP-64,P235,Onishi

A=47

⁴⁷K 2004ISZX NUCLEAR REACTIONS ¹⁹⁸Pt(⁴⁸Ca, X)⁴⁷K / ⁴⁸K, E=8.5 MeV / nucleon; measured prompt and delayed E γ , I γ , $\gamma\gamma$ -, (particle) γ -coin. ^{47,48}K deduced levels, J, π , isomeric states T_{1/2}. REPT CNS-REP-64,P27,Ishii

A=48

⁴⁸K 2004ISZX NUCLEAR REACTIONS ¹⁹⁸Pt(⁴⁸Ca, X)⁴⁷K / ⁴⁸K, E=8.5 MeV / nucleon; measured prompt and delayed E γ , I γ , $\gamma\gamma$ -, (particle) γ -coin. ^{47,48}K deduced levels, J, π , isomeric states T_{1/2}. REPT CNS-REP-64,P27,Ishii

⁴⁸Ca 2005ZD02 RADIOACTIVITY ⁴⁸Ca(2 β^-); measured 0 $\nu\beta\beta$ -decay T_{1/2} lower limit. CaWO₄ crystal scintillators. JOUR APHYE 23 249

⁴⁸Ti 2005ZD02 RADIOACTIVITY ⁴⁸Ca(2 β^-); measured 0 $\nu\beta\beta$ -decay T_{1/2} lower limit. CaWO₄ crystal scintillators. JOUR APHYE 23 249

⁴⁸V 2005B010 NUCLEAR REACTIONS Zn(p, X)⁶⁴Cu / ⁵⁷Ni / ⁵⁶Ni / ⁵²Mn / ⁵⁴Mn / ⁶²Zn / ⁶⁵Zn / ⁵¹Cr / ⁴⁸V / ⁵⁵Co / ⁵⁶Co / ⁵⁷Co / ⁵⁸Co / ⁶⁰Co / ⁶⁶Ga / ⁶⁷Ga / ⁵²Fe / ⁵⁹Fe, E \approx 31-141 MeV; measured production σ . Stacked-foil activation. JOUR JRNCD 264 101

A=49

No references found

A=50

⁵⁰Ti 2005BA14 NUCLEAR REACTIONS ⁵⁰V(d, 2p), E=171 MeV; measured Ep, pp-coin, σ (E, θ). ⁵⁰V deduced Gamow-Teller strength distribution. Comparison with model predictions. JOUR PRVCA 71 024603

⁵⁰V 2005BA14 NUCLEAR REACTIONS ⁵⁰V(d, 2p), E=171 MeV; measured Ep, pp-coin, σ (E, θ). ⁵⁰V deduced Gamow-Teller strength distribution. Comparison with model predictions. JOUR PRVCA 71 024603

⁵⁰Cr 2005W001 NUCLEAR REACTIONS ¹⁹⁷Au(⁸⁴Kr, ⁸⁴Kr'), (⁵⁶Cr, ⁵⁶Cr'), (¹⁰⁸Sn, ¹⁰⁸Sn'), E=113-142 MeV / nucleon; measured E γ , I γ following projectile Coulomb excitation. ⁸⁴Kr, ⁵⁶Cr, ¹⁰⁸Sn deduced transitions. ⁹Be(⁵⁵Ni, X)⁵⁴Co / ⁵²Fe / ⁵⁰Cr, E=171 MeV / nucleon; measured E γ , I γ , (particle) γ -coin. JOUR NIMAE 537 637

A=51

⁵¹Cr 2005B010 NUCLEAR REACTIONS Zn(p, X)⁶⁴Cu / ⁵⁷Ni / ⁵⁶Ni / ⁵²Mn / ⁵⁴Mn / ⁶²Zn / ⁶⁵Zn / ⁵¹Cr / ⁴⁸V / ⁵⁵Co / ⁵⁶Co / ⁵⁷Co / ⁵⁸Co / ⁶⁰Co / ⁶⁶Ga / ⁶⁷Ga / ⁵²Fe / ⁵⁹Fe, E ≈ 31-141 MeV; measured production σ .
Stacked-foil activation. JOUR JRNCD 264 101

A=52

⁵²Mn 2004ADZW NUCLEAR REACTIONS ²⁰⁹Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³²Th(n, γ), ¹⁹⁷Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ¹¹⁵In(n, 5n), (n, 6n), (n, 7n), ⁵⁹Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, γ), (n, p), (n, 6n2p), E=spectrum; measured E γ , I γ ; deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam

2004MIZS NUCLEAR REACTIONS Fe(p, X)⁵²Mn, E < 2.6 GeV; Pb(p, X)¹⁰Be, E < 2.6 GeV; ²⁰⁹Bi(p, 4np), E < 2.6 GeV; Pb(n, X)¹⁹⁶Au / ⁹⁵Zr, E ≈ 70-180 MeV; measured excitation functions. Comparison with model predictions. REPT NEA/NSC/DOC(2004)14,P28, Michel

2004QAZZ NUCLEAR REACTIONS ⁵²Cr(p, n), (³He, t), ⁵⁴Fe(d, α), (³He, p α), E ≈ 5-35 MeV; measured isomer production ratios. REPT NEA/NSC/DOC(2004)14,P11, Qaim

2005AD01 NUCLEAR REACTIONS ²⁰⁹Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³²Th(n, γ), ¹⁹⁷Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ⁵⁹Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, p), (n, 6n2p), ¹¹⁵In(n, 5n), (n, 6n), (n, 7n), E=spectrum; measured E γ , I γ ; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61

2005B010 NUCLEAR REACTIONS Zn(p, X)⁶⁴Cu / ⁵⁷Ni / ⁵⁶Ni / ⁵²Mn / ⁵⁴Mn / ⁶²Zn / ⁶⁵Zn / ⁵¹Cr / ⁴⁸V / ⁵⁵Co / ⁵⁶Co / ⁵⁷Co / ⁵⁸Co / ⁶⁰Co / ⁶⁶Ga / ⁶⁷Ga / ⁵²Fe / ⁵⁹Fe, E ≈ 31-141 MeV; measured production σ .
Stacked-foil activation. JOUR JRNCD 264 101

⁵²Fe 2005B010 NUCLEAR REACTIONS Zn(p, X)⁶⁴Cu / ⁵⁷Ni / ⁵⁶Ni / ⁵²Mn / ⁵⁴Mn / ⁶²Zn / ⁶⁵Zn / ⁵¹Cr / ⁴⁸V / ⁵⁵Co / ⁵⁶Co / ⁵⁷Co / ⁵⁸Co / ⁶⁰Co / ⁶⁶Ga / ⁶⁷Ga / ⁵²Fe / ⁵⁹Fe, E ≈ 31-141 MeV; measured production σ .
Stacked-foil activation. JOUR JRNCD 264 101

2005W001 NUCLEAR REACTIONS ¹⁹⁷Au(⁸⁴Kr, ⁸⁴Kr'), (⁵⁶Cr, ⁵⁶Cr'), (¹⁰⁸Sn, ¹⁰⁸Sn'), E=113-142 MeV / nucleon; measured E γ , I γ following projectile Coulomb excitation. ⁸⁴Kr, ⁵⁶Cr, ¹⁰⁸Sn deduced transitions. ⁹Be(⁵⁵Ni, X)⁵⁴Co / ⁵²Fe / ⁵⁰Cr, E=171 MeV / nucleon; measured E γ , I γ , (particle) γ -coin. JOUR NIMAE 537 637

A=53

No references found

A=54

⁵⁴ Sc	2004LI75	RADIOACTIVITY ^{54,55,56} Sc(β^-) [from Be(⁸⁶ Kr, X)]; measured E β , E γ , $\beta\gamma$ -coin, T _{1/2} . ^{54,55,56} Ti deduced levels, J, π , configurations. Comparison with model predictions. JOUR PRVCA 70 064303
⁵⁴ Ti	2004F009	NUCLEAR REACTIONS ²³⁸ U(⁴⁸ Ca, X) ⁵⁴ Ti / ⁵⁶ Ti, E=330 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ^{54,56} Ti deduced levels, J, π , configurations. Gammasphere array. JOUR PRVCA 70 064304
	2004LI75	RADIOACTIVITY ^{54,55,56} Sc(β^-) [from Be(⁸⁶ Kr, X)]; measured E β , E γ , $\beta\gamma$ -coin, T _{1/2} . ^{54,55,56} Ti deduced levels, J, π , configurations. Comparison with model predictions. JOUR PRVCA 70 064303
⁵⁴ Mn	2005B010	NUCLEAR REACTIONS Zn(p, X) ⁶⁴ Cu / ⁵⁷ Ni / ⁵⁶ Ni / ⁵² Mn / ⁵⁴ Mn / ⁶² Zn / ⁶⁵ Zn / ⁵¹ Cr / ⁴⁸ V / ⁵⁵ Co / ⁵⁶ Co / ⁵⁷ Co / ⁵⁸ Co / ⁶⁰ Co / ⁶⁶ Ga / ⁶⁷ Ga / ⁵² Fe / ⁵⁹ Fe, E \approx 31-141 MeV; measured production σ . Stacked-foil activation. JOUR JRNCD 264 101
⁵⁴ Co	2005W001	NUCLEAR REACTIONS ¹⁹⁷ Au(⁸⁴ Kr, ⁸⁴ Kr'), (⁵⁶ Cr, ⁵⁶ Cr'), (¹⁰⁸ Sn, ¹⁰⁸ Sn'), E=113-142 MeV / nucleon; measured E γ , I γ following projectile Coulomb excitation. ⁸⁴ Kr, ⁵⁶ Cr, ¹⁰⁸ Sn deduced transitions. ⁹ Be(⁵⁵ Ni, X) ⁵⁴ Co / ⁵² Fe / ⁵⁰ Cr, E=171 MeV / nucleon; measured E γ , I γ , (particle) γ -coin. JOUR NIMAE 537 637

A=55

⁵⁵ Sc	2004LI75	RADIOACTIVITY ^{54,55,56} Sc(β^-) [from Be(⁸⁶ Kr, X)]; measured E β , E γ , $\beta\gamma$ -coin, T _{1/2} . ^{54,55,56} Ti deduced levels, J, π , configurations. Comparison with model predictions. JOUR PRVCA 70 064303
⁵⁵ Ti	2004LI75	RADIOACTIVITY ^{54,55,56} Sc(β^-) [from Be(⁸⁶ Kr, X)]; measured E β , E γ , $\beta\gamma$ -coin, T _{1/2} . ^{54,55,56} Ti deduced levels, J, π , configurations. Comparison with model predictions. JOUR PRVCA 70 064303
⁵⁵ Co	2004ADZW	NUCLEAR REACTIONS ²⁰⁹ Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³² Th(n, γ), ¹⁹⁷ Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ¹¹⁵ In(n, 5n), (n, 6n), (n, 7n), ⁵⁹ Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, γ), (n, p), (n, 6n2p), E=spectrum; measured E γ , I γ ; deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam
	2005AD01	NUCLEAR REACTIONS ²⁰⁹ Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³² Th(n, γ), ¹⁹⁷ Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ⁵⁹ Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, p), (n, 6n2p), ¹¹⁵ In(n, 5n), (n, 6n), (n, 7n), E=spectrum; measured E γ , I γ ; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61
	2005B010	NUCLEAR REACTIONS Zn(p, X) ⁶⁴ Cu / ⁵⁷ Ni / ⁵⁶ Ni / ⁵² Mn / ⁵⁴ Mn / ⁶² Zn / ⁶⁵ Zn / ⁵¹ Cr / ⁴⁸ V / ⁵⁵ Co / ⁵⁶ Co / ⁵⁷ Co / ⁵⁸ Co / ⁶⁰ Co / ⁶⁶ Ga / ⁶⁷ Ga / ⁵² Fe / ⁵⁹ Fe, E \approx 31-141 MeV; measured production σ . Stacked-foil activation. JOUR JRNCD 264 101
⁵⁵ Ni	2004YU11	NUCLEAR REACTIONS ¹⁹⁷ Au(⁵⁵ Ni, ⁵⁵ Ni'), E=84.8 MeV; measured E γ , I γ , (particle) γ -coin following projectile Coulomb excitation. ⁵⁵ Ni deduced level, transition B(E2). Comparison with model predictions. JOUR PRVCA 70 064321

A=56

⁵⁶ Sc	2004LI75	RADIOACTIVITY ^{54,55,56} Sc(β^-) [from Be(⁸⁶ Kr, X)]; measured E β , E γ , $\beta\gamma$ -coin, T _{1/2} . ^{54,55,56} Ti deduced levels, J, π , configurations. Comparison with model predictions. JOUR PRVCA 70 064303
⁵⁶ Ti	2004F009	NUCLEAR REACTIONS ²³⁸ U(⁴⁸ Ca, X) ⁵⁴ Ti / ⁵⁶ Ti, E=330 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ^{54,56} Ti deduced levels, J, π , configurations. Gammasphere array. JOUR PRVCA 70 064304
	2004LI75	RADIOACTIVITY ^{54,55,56} Sc(β^-) [from Be(⁸⁶ Kr, X)]; measured E β , E γ , $\beta\gamma$ -coin, T _{1/2} . ^{54,55,56} Ti deduced levels, J, π , configurations. Comparison with model predictions. JOUR PRVCA 70 064303
⁵⁶ Cr	2005W001	NUCLEAR REACTIONS ¹⁹⁷ Au(⁸⁴ Kr, ⁸⁴ Kr'), (⁵⁶ Cr, ⁵⁶ Cr'), (¹⁰⁸ Sn, ¹⁰⁸ Sn'), E=113-142 MeV / nucleon; measured E γ , I γ following projectile Coulomb excitation. ⁸⁴ Kr, ⁵⁶ Cr, ¹⁰⁸ Sn deduced transitions. ⁹ Be(⁵⁵ Ni, X) ⁵⁴ Co / ⁵² Fe / ⁵⁰ Cr, E=171 MeV / nucleon; measured E γ , I γ , (particle) γ -coin. JOUR NIMAE 537 637
⁵⁶ Co	2004ADZW	NUCLEAR REACTIONS ²⁰⁹ Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³² Th(n, γ), ¹⁹⁷ Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ¹¹⁵ In(n, 5n), (n, 6n), (n, 7n), ⁵⁹ Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, γ), (n, p), (n, 6n2p), E=spectrum; measured E γ , I γ ; deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam
	2005AD01	NUCLEAR REACTIONS ²⁰⁹ Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³² Th(n, γ), ¹⁹⁷ Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ⁵⁹ Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, p), (n, 6n2p), ¹¹⁵ In(n, 5n), (n, 6n), (n, 7n), E=spectrum; measured E γ , I γ ; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61
	2005B010	NUCLEAR REACTIONS Zn(p, X) ⁶⁴ Cu / ⁵⁷ Ni / ⁵⁶ Ni / ⁵² Mn / ⁵⁴ Mn / ⁶² Zn / ⁶⁵ Zn / ⁵¹ Cr / ⁴⁸ V / ⁵⁵ Co / ⁵⁶ Co / ⁵⁷ Co / ⁵⁸ Co / ⁶⁰ Co / ⁶⁶ Ga / ⁶⁷ Ga / ⁵² Fe / ⁵⁹ Fe, E \approx 31-141 MeV; measured production σ . Stacked-foil activation. JOUR JRNCD 264 101
⁵⁶ Ni	2005B010	NUCLEAR REACTIONS Zn(p, X) ⁶⁴ Cu / ⁵⁷ Ni / ⁵⁶ Ni / ⁵² Mn / ⁵⁴ Mn / ⁶² Zn / ⁶⁵ Zn / ⁵¹ Cr / ⁴⁸ V / ⁵⁵ Co / ⁵⁶ Co / ⁵⁷ Co / ⁵⁸ Co / ⁶⁰ Co / ⁶⁶ Ga / ⁶⁷ Ga / ⁵² Fe / ⁵⁹ Fe, E \approx 31-141 MeV; measured production σ . Stacked-foil activation. JOUR JRNCD 264 101
	2005TAZZ	NUCLEAR REACTIONS ¹³ C, ⁵⁶ Fe(¹¹ B, ¹¹ Li), E=758 MeV; measured σ (E); deduced Gamow-Teller resonance, IAS features. CONF Riken(Origin of Matter) Proc,P533,Takahisa

A=57

⁵⁷ Sc	2005GA01	RADIOACTIVITY ^{57,58} Sc, ^{58,59,60} Ti, ⁶¹ V, ^{62,63,64,65,66} Cr(β^-) [from ⁵⁸ Ni(⁷⁶ Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T _{1/2} . ⁵⁸ V, ⁶¹ Cr, ⁶² Mn deduced levels, J, π . ⁵⁸ V, ⁶¹ Cr, ^{62,63,64,65} Mn deduced transitions. ⁶⁰ V, ⁶² Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
	2005GA01	NUCLEAR REACTIONS ⁵⁸ Ni(⁷⁶ Ge, X) ⁵⁷ Sc / ⁵⁸ Sc / ⁵⁸ Ti / ⁵⁹ Ti / ⁶⁰ Ti / ⁶⁰ V / ⁶¹ V / ⁶² V / ⁶³ V / ⁶² Cr / ⁶³ Cr / ⁶⁴ Cr / ⁶⁵ Cr / ⁶⁶ Cr / ⁶⁵ Mn / ⁶⁶ Mn, E=61.8 MeV / nucleon; measured yields. JOUR ZAANE 23 41

A=57 (continued)

⁵⁷ Ti	2005GA01	RADIOACTIVITY ^{57,58} Sc, ^{58,59,60} Ti, ⁶¹ V, ^{62,63,64,65,66} Cr(β^-) [from ⁵⁸ Ni(⁷⁶ Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T _{1/2} . ⁵⁸ V, ⁶¹ Cr, ⁶² Mn deduced levels, J, π . ⁵⁸ V, ⁶¹ Cr, ^{62,63,64,65} Mn deduced transitions. ⁶⁰ V, ⁶² Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
⁵⁷ Co	2004ADZW	NUCLEAR REACTIONS ²⁰⁹ Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³² Th(n, γ), ¹⁹⁷ Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ¹¹⁵ In(n, 5n), (n, 6n), (n, 7n), ⁵⁹ Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, γ), (n, p), (n, 6n2p), E=spectrum; measured E γ , I γ ; deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam
	2005AD01	NUCLEAR REACTIONS ²⁰⁹ Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³² Th(n, γ), ¹⁹⁷ Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ⁵⁹ Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, p), (n, 6n2p), ¹¹⁵ In(n, 5n), (n, 6n), (n, 7n), E=spectrum; measured E γ , I γ ; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61
	2005B010	NUCLEAR REACTIONS Zn(p, X) ⁶⁴ Cu / ⁵⁷ Ni / ⁵⁶ Ni / ⁵² Mn / ⁵⁴ Mn / ⁶² Zn / ⁶⁵ Zn / ⁵¹ Cr / ⁴⁸ V / ⁵⁵ Co / ⁵⁶ Co / ⁵⁷ Co / ⁵⁸ Co / ⁶⁰ Co / ⁶⁶ Ga / ⁶⁷ Ga / ⁵² Fe / ⁵⁹ Fe, E \approx 31-141 MeV; measured production σ . Stacked-foil activation. JOUR JRNCD 264 101
⁵⁷ Ni	2005B010	NUCLEAR REACTIONS Zn(p, X) ⁶⁴ Cu / ⁵⁷ Ni / ⁵⁶ Ni / ⁵² Mn / ⁵⁴ Mn / ⁶² Zn / ⁶⁵ Zn / ⁵¹ Cr / ⁴⁸ V / ⁵⁵ Co / ⁵⁶ Co / ⁵⁷ Co / ⁵⁸ Co / ⁶⁰ Co / ⁶⁶ Ga / ⁶⁷ Ga / ⁵² Fe / ⁵⁹ Fe, E \approx 31-141 MeV; measured production σ . Stacked-foil activation. JOUR JRNCD 264 101

A=58

⁵⁸ Sc	2005GA01	RADIOACTIVITY ^{57,58} Sc, ^{58,59,60} Ti, ⁶¹ V, ^{62,63,64,65,66} Cr(β^-) [from ⁵⁸ Ni(⁷⁶ Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T _{1/2} . ⁵⁸ V, ⁶¹ Cr, ⁶² Mn deduced levels, J, π . ⁵⁸ V, ⁶¹ Cr, ^{62,63,64,65} Mn deduced transitions. ⁶⁰ V, ⁶² Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
	2005GA01	NUCLEAR REACTIONS ⁵⁸ Ni(⁷⁶ Ge, X) ⁵⁷ Sc / ⁵⁸ Sc / ⁵⁸ Ti / ⁵⁹ Ti / ⁶⁰ Ti / ⁶⁰ V / ⁶¹ V / ⁶² V / ⁶³ V / ⁶² Cr / ⁶³ Cr / ⁶⁴ Cr / ⁶⁵ Cr / ⁶⁶ Cr / ⁶⁵ Mn / ⁶⁶ Mn, E=61.8 MeV / nucleon; measured yields. JOUR ZAANE 23 41
⁵⁸ Ti	2005GA01	RADIOACTIVITY ^{57,58} Sc, ^{58,59,60} Ti, ⁶¹ V, ^{62,63,64,65,66} Cr(β^-) [from ⁵⁸ Ni(⁷⁶ Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T _{1/2} . ⁵⁸ V, ⁶¹ Cr, ⁶² Mn deduced levels, J, π . ⁵⁸ V, ⁶¹ Cr, ^{62,63,64,65} Mn deduced transitions. ⁶⁰ V, ⁶² Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
	2005GA01	NUCLEAR REACTIONS ⁵⁸ Ni(⁷⁶ Ge, X) ⁵⁷ Sc / ⁵⁸ Sc / ⁵⁸ Ti / ⁵⁹ Ti / ⁶⁰ Ti / ⁶⁰ V / ⁶¹ V / ⁶² V / ⁶³ V / ⁶² Cr / ⁶³ Cr / ⁶⁴ Cr / ⁶⁵ Cr / ⁶⁶ Cr / ⁶⁵ Mn / ⁶⁶ Mn, E=61.8 MeV / nucleon; measured yields. JOUR ZAANE 23 41

A=58 (continued)

- ⁵⁸V 2005GA01 RADIOACTIVITY ^{57,58}Sc, ^{58,59,60}Ti, ⁶¹V, ^{62,63,64,65,66}Cr(β^-) [from ⁵⁸Ni(⁷⁶Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T_{1/2}. ⁵⁸V, ⁶¹Cr, ⁶²Mn deduced levels, J, π . ⁵⁸V, ⁶¹Cr, ^{62,63,64,65}Mn deduced transitions. ⁶⁰V, ⁶²Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
- ⁵⁸Co 2004ADZW NUCLEAR REACTIONS ²⁰⁹Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³²Th(n, γ), ¹⁹⁷Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ¹¹⁵In(n, 5n), (n, 6n), (n, 7n), ⁵⁹Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, γ), (n, p), (n, 6n2p), E=spectrum; measured E γ , I γ ; deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam
- 2005AD01 NUCLEAR REACTIONS ²⁰⁹Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³²Th(n, γ), ¹⁹⁷Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ⁵⁹Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, p), (n, 6n2p), ¹¹⁵In(n, 5n), (n, 6n), (n, 7n), E=spectrum; measured E γ , I γ ; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61
- 2005B010 NUCLEAR REACTIONS Zn(p, X)⁶⁴Cu / ⁵⁷Ni / ⁵⁶Ni / ⁵²Mn / ⁵⁴Mn / ⁶²Zn / ⁶⁵Zn / ⁵¹Cr / ⁴⁸V / ⁵⁵Co / ⁵⁶Co / ⁵⁷Co / ⁵⁸Co / ⁶⁰Co / ⁶⁶Ga / ⁶⁷Ga / ⁵²Fe / ⁵⁹Fe, E \approx 31-141 MeV; measured production σ . Stacked-foil activation. JOUR JRNCD 264 101
- 2005HA03 NUCLEAR REACTIONS ⁵⁸Ni(d, 2p), E=170 MeV; measured Ep, pp-coin, $\sigma(E, \theta)$. ⁵⁸Co deduced levels, Gamow-Teller strengths, related features. ⁵⁸Ni, ⁵⁸Co deduced analog states Coulomb displacement energy. Comparison with large-scale shell model calculations. JOUR PRVCA 71 014606
- ⁵⁸Ni 2005AL03 NUCLEAR REACTIONS ⁵⁸Ni(¹⁶O, ¹⁶O), (¹⁶O, ¹⁶O'), (¹⁶O, ¹²C), E=46 MeV; ⁵⁸Ni(¹⁸O, ¹⁸O), (¹⁸O, ¹⁸O'), (¹⁸O, ¹⁷O), (¹⁸O, ¹⁶O), E=46 MeV; measured elastic, inelastic, and transfer $\sigma(E, \theta)$. Coupled-channels analysis, comparison with previous results. JOUR NUPAB 748 59
- 2005HA03 NUCLEAR REACTIONS ⁵⁸Ni(d, 2p), E=170 MeV; measured Ep, pp-coin, $\sigma(E, \theta)$. ⁵⁸Co deduced levels, Gamow-Teller strengths, related features. ⁵⁸Ni, ⁵⁸Co deduced analog states Coulomb displacement energy. Comparison with large-scale shell model calculations. JOUR PRVCA 71 014606

A=59

- ⁵⁹Ti 2005GA01 RADIOACTIVITY ^{57,58}Sc, ^{58,59,60}Ti, ⁶¹V, ^{62,63,64,65,66}Cr(β^-) [from ⁵⁸Ni(⁷⁶Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T_{1/2}. ⁵⁸V, ⁶¹Cr, ⁶²Mn deduced levels, J, π . ⁵⁸V, ⁶¹Cr, ^{62,63,64,65}Mn deduced transitions. ⁶⁰V, ⁶²Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
- 2005GA01 NUCLEAR REACTIONS ⁵⁸Ni(⁷⁶Ge, X)⁵⁷Sc / ⁵⁸Sc / ⁵⁸Ti / ⁵⁹Ti / ⁶⁰Ti / ⁶⁰V / ⁶¹V / ⁶²V / ⁶³V / ⁶²Cr / ⁶³Cr / ⁶⁴Cr / ⁶⁵Cr / ⁶⁶Cr / ⁶⁵Mn / ⁶⁶Mn, E=61.8 MeV / nucleon; measured yields. JOUR ZAANE 23 41

A=59 (continued)

- ⁵⁹V 2005GA01 RADIOACTIVITY ^{57,58}Sc, ^{58,59,60}Ti, ⁶¹V, ^{62,63,64,65,66}Cr(β^-) [from ⁵⁸Ni(⁷⁶Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T_{1/2}. ⁵⁸V, ⁶¹Cr, ⁶²Mn deduced levels, J, π . ⁵⁸V, ⁶¹Cr, ^{62,63,64,65}Mn deduced transitions. ⁶⁰V, ⁶²Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
- ⁵⁹Fe 2004ADZW NUCLEAR REACTIONS ²⁰⁹Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³²Th(n, γ), ¹⁹⁷Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ¹¹⁵In(n, 5n), (n, 6n), (n, 7n), ⁵⁹Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, γ), (n, p), (n, 6n2p), E=spectrum; measured E γ , I γ ; deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam
- 2005AD01 NUCLEAR REACTIONS ²⁰⁹Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³²Th(n, γ), ¹⁹⁷Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ⁵⁹Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, p), (n, 6n2p), ¹¹⁵In(n, 5n), (n, 6n), (n, 7n), E=spectrum; measured E γ , I γ ; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61
- 2005B010 NUCLEAR REACTIONS Zn(p, X)⁶⁴Cu / ⁵⁷Ni / ⁵⁶Ni / ⁵²Mn / ⁵⁴Mn / ⁶²Zn / ⁶⁵Zn / ⁵¹Cr / ⁴⁸V / ⁵⁵Co / ⁵⁶Co / ⁵⁷Co / ⁵⁸Co / ⁶⁰Co / ⁶⁶Ga / ⁶⁷Ga / ⁵²Fe / ⁵⁹Fe, E \approx 31-141 MeV; measured production σ . Stacked-foil activation. JOUR JRNCD 264 101
- ⁵⁹Ni 2005AL03 NUCLEAR REACTIONS ⁵⁸Ni(¹⁶O, ¹⁶O), (¹⁶O, ¹⁶O'), (¹⁶O, ¹²C), E=46 MeV; ⁵⁸Ni(¹⁸O, ¹⁸O), (¹⁸O, ¹⁸O'), (¹⁸O, ¹⁷O), (¹⁸O, ¹⁶O), E=46 MeV; measured elastic, inelastic, and transfer $\sigma(E, \theta)$. Coupled-channels analysis, comparison with previous results. JOUR NUPAB 748 59

A=60

- ⁶⁰Ti 2005GA01 RADIOACTIVITY ^{57,58}Sc, ^{58,59,60}Ti, ⁶¹V, ^{62,63,64,65,66}Cr(β^-) [from ⁵⁸Ni(⁷⁶Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T_{1/2}. ⁵⁸V, ⁶¹Cr, ⁶²Mn deduced levels, J, π . ⁵⁸V, ⁶¹Cr, ^{62,63,64,65}Mn deduced transitions. ⁶⁰V, ⁶²Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
- 2005GA01 NUCLEAR REACTIONS ⁵⁸Ni(⁷⁶Ge, X)⁵⁷Sc / ⁵⁸Sc / ⁵⁸Ti / ⁵⁹Ti / ⁶⁰Ti / ⁶⁰V / ⁶¹V / ⁶²V / ⁶³V / ⁶²Cr / ⁶³Cr / ⁶⁴Cr / ⁶⁵Cr / ⁶⁶Cr / ⁶⁵Mn / ⁶⁶Mn, E=61.8 MeV / nucleon; measured yields. JOUR ZAANE 23 41
- ⁶⁰V 2005GA01 RADIOACTIVITY ^{57,58}Sc, ^{58,59,60}Ti, ⁶¹V, ^{62,63,64,65,66}Cr(β^-) [from ⁵⁸Ni(⁷⁶Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T_{1/2}. ⁵⁸V, ⁶¹Cr, ⁶²Mn deduced levels, J, π . ⁵⁸V, ⁶¹Cr, ^{62,63,64,65}Mn deduced transitions. ⁶⁰V, ⁶²Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
- 2005GA01 NUCLEAR REACTIONS ⁵⁸Ni(⁷⁶Ge, X)⁵⁷Sc / ⁵⁸Sc / ⁵⁸Ti / ⁵⁹Ti / ⁶⁰Ti / ⁶⁰V / ⁶¹V / ⁶²V / ⁶³V / ⁶²Cr / ⁶³Cr / ⁶⁴Cr / ⁶⁵Cr / ⁶⁶Cr / ⁶⁵Mn / ⁶⁶Mn, E=61.8 MeV / nucleon; measured yields. JOUR ZAANE 23 41

A=60 (continued)

- ⁶⁰Co 2004ADZW NUCLEAR REACTIONS ²⁰⁹Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³²Th(n, γ), ¹⁹⁷Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ¹¹⁵In(n, 5n), (n, 6n), (n, 7n), ⁵⁹Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, γ), (n, p), (n, 6n2p), E=spectrum; measured E γ , I γ ; deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam
- 2005B010 NUCLEAR REACTIONS Zn(p, X)⁶⁴Cu / ⁵⁷Ni / ⁵⁶Ni / ⁵²Mn / ⁵⁴Mn / ⁶²Zn / ⁶⁵Zn / ⁵¹Cr / ⁴⁸V / ⁵⁵Co / ⁵⁶Co / ⁵⁷Co / ⁵⁸Co / ⁶⁰Co / ⁶⁶Ga / ⁶⁷Ga / ⁵²Fe / ⁵⁹Fe, E \approx 31-141 MeV; measured production σ . Stacked-foil activation. JOUR JRNC D 264 101
- 2005N004 NUCLEAR REACTIONS Ge, Mo, Te(p, X)⁶⁰Co, E=0.8, 1.85 GeV; measured production σ . Comparison with model predictions. JOUR NPBSE 143 508
- ⁶⁰Ni 2005AL03 NUCLEAR REACTIONS ⁵⁸Ni(¹⁶O, ¹⁶O), (¹⁶O, ¹⁶O'), (¹⁶O, ¹²C), E=46 MeV; ⁵⁸Ni(¹⁸O, ¹⁸O), (¹⁸O, ¹⁸O'), (¹⁸O, ¹⁷O), (¹⁸O, ¹⁶O), E=46 MeV; measured elastic, inelastic, and transfer $\sigma(E, \theta)$. Coupled-channels analysis, comparison with previous results. JOUR NUPAB 748 59

A=61

- ⁶¹V 2005GA01 RADIOACTIVITY ^{57,58}Sc, ^{58,59,60}Ti, ⁶¹V, ^{62,63,64,65,66}Cr(β^-) [from ⁵⁸Ni(⁷⁶Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T_{1/2}. ⁵⁸V, ⁶¹Cr, ⁶²Mn deduced levels, J, π . ⁵⁸V, ⁶¹Cr, ^{62,63,64,65}Mn deduced transitions. ⁶⁰V, ⁶²Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
- 2005GA01 NUCLEAR REACTIONS ⁵⁸Ni(⁷⁶Ge, X)⁵⁷Sc / ⁵⁸Sc / ⁵⁸Ti / ⁵⁹Ti / ⁶⁰Ti / ⁶⁰V / ⁶¹V / ⁶²V / ⁶³V / ⁶²Cr / ⁶³Cr / ⁶⁴Cr / ⁶⁵Cr / ⁶⁶Cr / ⁶⁵Mn / ⁶⁶Mn, E=61.8 MeV / nucleon; measured yields. JOUR ZAANE 23 41
- ⁶¹Cr 2005GA01 RADIOACTIVITY ^{57,58}Sc, ^{58,59,60}Ti, ⁶¹V, ^{62,63,64,65,66}Cr(β^-) [from ⁵⁸Ni(⁷⁶Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T_{1/2}. ⁵⁸V, ⁶¹Cr, ⁶²Mn deduced levels, J, π . ⁵⁸V, ⁶¹Cr, ^{62,63,64,65}Mn deduced transitions. ⁶⁰V, ⁶²Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
- ⁶¹Ga 2005AN03 NUCLEAR REACTIONS ²⁴Mg(⁴⁰Ca, 2np), E=104 MeV; measured E γ , I γ , $\gamma\gamma$ -, (recoil) γ -coin. ⁶¹Ga deduced levels, J, π , analog states features. Clarion array, mass separator. JOUR PRVCA 71 011303

A=62

- ⁶²V 2005GA01 NUCLEAR REACTIONS ⁵⁸Ni(⁷⁶Ge, X)⁵⁷Sc / ⁵⁸Sc / ⁵⁸Ti / ⁵⁹Ti / ⁶⁰Ti / ⁶⁰V / ⁶¹V / ⁶²V / ⁶³V / ⁶²Cr / ⁶³Cr / ⁶⁴Cr / ⁶⁵Cr / ⁶⁶Cr / ⁶⁵Mn / ⁶⁶Mn, E=61.8 MeV / nucleon; measured yields. JOUR ZAANE 23 41

A=62 (continued)

^{62}Cr	2005GA01	RADIOACTIVITY $^{57,58}\text{Sc}$, $^{58,59,60}\text{Ti}$, ^{61}V , $^{62,63,64,65,66}\text{Cr}(\beta^-)$ [from $^{58}\text{Ni}(^{76}\text{Ge}, \text{X})$]; measured $E\gamma$, $E\beta$, $\beta\gamma$ -coin, $T_{1/2}$. ^{58}V , ^{61}Cr , ^{62}Mn deduced levels, J , π . ^{58}V , ^{61}Cr , $^{62,63,64,65}\text{Mn}$ deduced transitions. ^{60}V , ^{62}Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
	2005GA01	NUCLEAR REACTIONS $^{58}\text{Ni}(^{76}\text{Ge}, \text{X})^{57}\text{Sc} / ^{58}\text{Sc} / ^{58}\text{Ti} / ^{59}\text{Ti} / ^{60}\text{Ti} / ^{60}\text{V} / ^{61}\text{V} / ^{62}\text{V} / ^{63}\text{V} / ^{62}\text{Cr} / ^{63}\text{Cr} / ^{64}\text{Cr} / ^{65}\text{Cr} / ^{66}\text{Cr} / ^{65}\text{Mn} / ^{66}\text{Mn}$, $E=61.8$ MeV / nucleon; measured yields. JOUR ZAANE 23 41
^{62}Mn	2005GA01	RADIOACTIVITY $^{57,58}\text{Sc}$, $^{58,59,60}\text{Ti}$, ^{61}V , $^{62,63,64,65,66}\text{Cr}(\beta^-)$ [from $^{58}\text{Ni}(^{76}\text{Ge}, \text{X})$]; measured $E\gamma$, $E\beta$, $\beta\gamma$ -coin, $T_{1/2}$. ^{58}V , ^{61}Cr , ^{62}Mn deduced levels, J , π . ^{58}V , ^{61}Cr , $^{62,63,64,65}\text{Mn}$ deduced transitions. ^{60}V , ^{62}Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
^{62}Zn	2005AL03	NUCLEAR REACTIONS $^{58}\text{Ni}(^{16}\text{O}, ^{16}\text{O})$, $(^{16}\text{O}, ^{16}\text{O}')$, $(^{16}\text{O}, ^{12}\text{C})$, $E=46$ MeV; $^{58}\text{Ni}(^{18}\text{O}, ^{18}\text{O})$, $(^{18}\text{O}, ^{18}\text{O}')$, $(^{18}\text{O}, ^{17}\text{O})$, $(^{18}\text{O}, ^{16}\text{O})$, $E=46$ MeV; measured elastic, inelastic, and transfer $\sigma(E, \theta)$. Coupled-channels analysis, comparison with previous results. JOUR NUPAB 748 59
	2005B010	NUCLEAR REACTIONS $\text{Zn}(\text{p}, \text{X})^{64}\text{Cu} / ^{57}\text{Ni} / ^{56}\text{Ni} / ^{52}\text{Mn} / ^{54}\text{Mn} / ^{62}\text{Zn} / ^{65}\text{Zn} / ^{51}\text{Cr} / ^{48}\text{V} / ^{55}\text{Co} / ^{56}\text{Co} / ^{57}\text{Co} / ^{58}\text{Co} / ^{60}\text{Co} / ^{66}\text{Ga} / ^{67}\text{Ga} / ^{52}\text{Fe} / ^{59}\text{Fe}$, $E \approx 31\text{--}141$ MeV; measured production σ . Stacked-foil activation. JOUR JRNC D 264 101
	2005CA06	RADIOACTIVITY $^{62}\text{Ga}(\text{EC})$ [from $^{64}\text{Zn}(\text{p}, 3\text{n})$]; measured $E\gamma$, $I\gamma$, $\beta\gamma$ -coin, $T_{1/2}$; deduced branching ratios. ^{62}Zn deduced levels, β -feeding intensities. JOUR ZAANE 23 409
^{62}Ga	2005CA06	RADIOACTIVITY $^{62}\text{Ga}(\text{EC})$ [from $^{64}\text{Zn}(\text{p}, 3\text{n})$]; measured $E\gamma$, $I\gamma$, $\beta\gamma$ -coin, $T_{1/2}$; deduced branching ratios. ^{62}Zn deduced levels, β -feeding intensities. JOUR ZAANE 23 409

A=63

^{63}V	2005GA01	NUCLEAR REACTIONS $^{58}\text{Ni}(^{76}\text{Ge}, \text{X})^{57}\text{Sc} / ^{58}\text{Sc} / ^{58}\text{Ti} / ^{59}\text{Ti} / ^{60}\text{Ti} / ^{60}\text{V} / ^{61}\text{V} / ^{62}\text{V} / ^{63}\text{V} / ^{62}\text{Cr} / ^{63}\text{Cr} / ^{64}\text{Cr} / ^{65}\text{Cr} / ^{66}\text{Cr} / ^{65}\text{Mn} / ^{66}\text{Mn}$, $E=61.8$ MeV / nucleon; measured yields. JOUR ZAANE 23 41
^{63}Cr	2005GA01	RADIOACTIVITY $^{57,58}\text{Sc}$, $^{58,59,60}\text{Ti}$, ^{61}V , $^{62,63,64,65,66}\text{Cr}(\beta^-)$ [from $^{58}\text{Ni}(^{76}\text{Ge}, \text{X})$]; measured $E\gamma$, $E\beta$, $\beta\gamma$ -coin, $T_{1/2}$. ^{58}V , ^{61}Cr , ^{62}Mn deduced levels, J , π . ^{58}V , ^{61}Cr , $^{62,63,64,65}\text{Mn}$ deduced transitions. ^{60}V , ^{62}Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
	2005GA01	NUCLEAR REACTIONS $^{58}\text{Ni}(^{76}\text{Ge}, \text{X})^{57}\text{Sc} / ^{58}\text{Sc} / ^{58}\text{Ti} / ^{59}\text{Ti} / ^{60}\text{Ti} / ^{60}\text{V} / ^{61}\text{V} / ^{62}\text{V} / ^{63}\text{V} / ^{62}\text{Cr} / ^{63}\text{Cr} / ^{64}\text{Cr} / ^{65}\text{Cr} / ^{66}\text{Cr} / ^{65}\text{Mn} / ^{66}\text{Mn}$, $E=61.8$ MeV / nucleon; measured yields. JOUR ZAANE 23 41
	2005NIZZ	RADIOACTIVITY $^{63,64}\text{Cr}$, $^{65,66}\text{Mn}$, $^{67,68}\text{Fe}$, $^{69,70}\text{Co}(\beta^-)$ [from $\text{Be}(^{86}\text{Kr}, \text{X})$]; measured $E\beta$, $T_{1/2}$. Fragment separator, comparisons with previous results and model predictions. CONF Riken(Origin of Matter) Proc,P304,Nishimura

A=63 (continued)

⁶³ Mn	2005GA01	RADIOACTIVITY ^{57,58} Sc, ^{58,59,60} Ti, ⁶¹ V, ^{62,63,64,65,66} Cr(β^-) [from ⁵⁸ Ni(⁷⁶ Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T _{1/2} . ⁵⁸ V, ⁶¹ Cr, ⁶² Mn deduced levels, J, π . ⁵⁸ V, ⁶¹ Cr, ^{62,63,64,65} Mn deduced transitions. ⁶⁰ V, ⁶² Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
	2005NIZZ	RADIOACTIVITY ^{63,64} Cr, ^{65,66} Mn, ^{67,68} Fe, ^{69,70} Co(β^-) [from Be(⁸⁶ Kr, X)]; measured E β , T _{1/2} . Fragment separator, comparisons with previous results and model predictions. CONF Riken(Origin of Matter) Proc,P304,Nishimura
⁶³ Ni	2004AHZZ	NUCLEAR REACTIONS ⁶² Ni(n, γ), E=low; measured capture σ for neutron spectrum with kT=25 keV. Accelerator mass spectrometry. REPT ANL-04/22,P15,Ahmad
	2005NA08	NUCLEAR REACTIONS ⁶² Ni(n, γ), E=spectrum; measured total σ . Fast-neutron activation, accelerator mass spectrometry. Astrophysical implications discussed. JOUR PRLTA 94 092504

A=64

⁶⁴ Cr	2005GA01	RADIOACTIVITY ^{57,58} Sc, ^{58,59,60} Ti, ⁶¹ V, ^{62,63,64,65,66} Cr(β^-) [from ⁵⁸ Ni(⁷⁶ Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T _{1/2} . ⁵⁸ V, ⁶¹ Cr, ⁶² Mn deduced levels, J, π . ⁵⁸ V, ⁶¹ Cr, ^{62,63,64,65} Mn deduced transitions. ⁶⁰ V, ⁶² Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
	2005GA01	NUCLEAR REACTIONS ⁵⁸ Ni(⁷⁶ Ge, X) ⁵⁷ Sc / ⁵⁸ Sc / ⁵⁸ Ti / ⁵⁹ Ti / ⁶⁰ Ti / ⁶⁰ V / ⁶¹ V / ⁶² V / ⁶³ V / ⁶² Cr / ⁶³ Cr / ⁶⁴ Cr / ⁶⁵ Cr / ⁶⁶ Cr / ⁶⁵ Mn / ⁶⁶ Mn, E=61.8 MeV / nucleon; measured yields. JOUR ZAANE 23 41
	2005NIZZ	RADIOACTIVITY ^{63,64} Cr, ^{65,66} Mn, ^{67,68} Fe, ^{69,70} Co(β^-) [from Be(⁸⁶ Kr, X)]; measured E β , T _{1/2} . Fragment separator, comparisons with previous results and model predictions. CONF Riken(Origin of Matter) Proc,P304,Nishimura
⁶⁴ Mn	2005GA01	RADIOACTIVITY ^{57,58} Sc, ^{58,59,60} Ti, ⁶¹ V, ^{62,63,64,65,66} Cr(β^-) [from ⁵⁸ Ni(⁷⁶ Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T _{1/2} . ⁵⁸ V, ⁶¹ Cr, ⁶² Mn deduced levels, J, π . ⁵⁸ V, ⁶¹ Cr, ^{62,63,64,65} Mn deduced transitions. ⁶⁰ V, ⁶² Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
	2005NIZZ	RADIOACTIVITY ^{63,64} Cr, ^{65,66} Mn, ^{67,68} Fe, ^{69,70} Co(β^-) [from Be(⁸⁶ Kr, X)]; measured E β , T _{1/2} . Fragment separator, comparisons with previous results and model predictions. CONF Riken(Origin of Matter) Proc,P304,Nishimura
⁶⁴ Ni	2005ZU01	RADIOACTIVITY ¹²⁰ Te(β^+ EC); ⁶⁴ Zn, ^{106,108} Cd, ¹²⁰ Te(2EC); measured T _{1/2} lower limits. JOUR NPBSE 138 236
⁶⁴ Cu	2005B010	NUCLEAR REACTIONS Zn(p, X) ⁶⁴ Cu / ⁵⁷ Ni / ⁵⁶ Ni / ⁵² Mn / ⁵⁴ Mn / ⁶² Zn / ⁶⁵ Zn / ⁵¹ Cr / ⁴⁸ V / ⁵⁵ Co / ⁵⁶ Co / ⁵⁷ Co / ⁵⁸ Co / ⁶⁰ Co / ⁶⁶ Ga / ⁶⁷ Ga / ⁵² Fe / ⁵⁹ Fe, E \approx 31-141 MeV; measured production σ . Stacked-foil activation. JOUR JRNC 264 101
⁶⁴ Zn	2005ZU01	RADIOACTIVITY ¹²⁰ Te(β^+ EC); ⁶⁴ Zn, ^{106,108} Cd, ¹²⁰ Te(2EC); measured T _{1/2} lower limits. JOUR NPBSE 138 236

A=65

⁶⁵ Cr	2005GA01	RADIOACTIVITY ^{57,58} Sc, ^{58,59,60} Ti, ⁶¹ V, ^{62,63,64,65,66} Cr(β^-) [from ⁵⁸ Ni(⁷⁶ Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T _{1/2} . ⁵⁸ V, ⁶¹ Cr, ⁶² Mn deduced levels, J, π . ⁵⁸ V, ⁶¹ Cr, ^{62,63,64,65} Mn deduced transitions. ⁶⁰ V, ⁶² Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
	2005GA01	NUCLEAR REACTIONS ⁵⁸ Ni(⁷⁶ Ge, X) ⁵⁷ Sc / ⁵⁸ Sc / ⁵⁸ Ti / ⁵⁹ Ti / ⁶⁰ Ti / ⁶⁰ V / ⁶¹ V / ⁶² V / ⁶³ V / ⁶² Cr / ⁶³ Cr / ⁶⁴ Cr / ⁶⁵ Cr / ⁶⁶ Cr / ⁶⁵ Mn / ⁶⁶ Mn, E=61.8 MeV / nucleon; measured yields. JOUR ZAANE 23 41
⁶⁵ Mn	2005GA01	RADIOACTIVITY ^{57,58} Sc, ^{58,59,60} Ti, ⁶¹ V, ^{62,63,64,65,66} Cr(β^-) [from ⁵⁸ Ni(⁷⁶ Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T _{1/2} . ⁵⁸ V, ⁶¹ Cr, ⁶² Mn deduced levels, J, π . ⁵⁸ V, ⁶¹ Cr, ^{62,63,64,65} Mn deduced transitions. ⁶⁰ V, ⁶² Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
	2005GA01	NUCLEAR REACTIONS ⁵⁸ Ni(⁷⁶ Ge, X) ⁵⁷ Sc / ⁵⁸ Sc / ⁵⁸ Ti / ⁵⁹ Ti / ⁶⁰ Ti / ⁶⁰ V / ⁶¹ V / ⁶² V / ⁶³ V / ⁶² Cr / ⁶³ Cr / ⁶⁴ Cr / ⁶⁵ Cr / ⁶⁶ Cr / ⁶⁵ Mn / ⁶⁶ Mn, E=61.8 MeV / nucleon; measured yields. JOUR ZAANE 23 41
	2005NIZZ	RADIOACTIVITY ^{63,64} Cr, ^{65,66} Mn, ^{67,68} Fe, ^{69,70} Co(β^-) [from Be(⁸⁶ Kr, X)]; measured E β , T _{1/2} . Fragment separator, comparisons with previous results and model predictions. CONF Riken(Origin of Matter) Proc,P304,Nishimura
⁶⁵ Fe	2005NIZZ	RADIOACTIVITY ^{63,64} Cr, ^{65,66} Mn, ^{67,68} Fe, ^{69,70} Co(β^-) [from Be(⁸⁶ Kr, X)]; measured E β , T _{1/2} . Fragment separator, comparisons with previous results and model predictions. CONF Riken(Origin of Matter) Proc,P304,Nishimura
⁶⁵ Zn	2005B010	NUCLEAR REACTIONS Zn(p, X) ⁶⁴ Cu / ⁵⁷ Ni / ⁵⁶ Ni / ⁵² Mn / ⁵⁴ Mn / ⁶² Zn / ⁶⁵ Zn / ⁵¹ Cr / ⁴⁸ V / ⁵⁵ Co / ⁵⁶ Co / ⁵⁷ Co / ⁵⁸ Co / ⁶⁰ Co / ⁶⁶ Ga / ⁶⁷ Ga / ⁵² Fe / ⁵⁹ Fe, E \approx 31-141 MeV; measured production σ . Stacked-foil activation. JOUR JRNCD 264 101

A=66

⁶⁶ Cr	2005GA01	RADIOACTIVITY ^{57,58} Sc, ^{58,59,60} Ti, ⁶¹ V, ^{62,63,64,65,66} Cr(β^-) [from ⁵⁸ Ni(⁷⁶ Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T _{1/2} . ⁵⁸ V, ⁶¹ Cr, ⁶² Mn deduced levels, J, π . ⁵⁸ V, ⁶¹ Cr, ^{62,63,64,65} Mn deduced transitions. ⁶⁰ V, ⁶² Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
	2005GA01	NUCLEAR REACTIONS ⁵⁸ Ni(⁷⁶ Ge, X) ⁵⁷ Sc / ⁵⁸ Sc / ⁵⁸ Ti / ⁵⁹ Ti / ⁶⁰ Ti / ⁶⁰ V / ⁶¹ V / ⁶² V / ⁶³ V / ⁶² Cr / ⁶³ Cr / ⁶⁴ Cr / ⁶⁵ Cr / ⁶⁶ Cr / ⁶⁵ Mn / ⁶⁶ Mn, E=61.8 MeV / nucleon; measured yields. JOUR ZAANE 23 41
⁶⁶ Mn	2005GA01	RADIOACTIVITY ^{57,58} Sc, ^{58,59,60} Ti, ⁶¹ V, ^{62,63,64,65,66} Cr(β^-) [from ⁵⁸ Ni(⁷⁶ Ge, X)]; measured E γ , E β , $\beta\gamma$ -coin, T _{1/2} . ⁵⁸ V, ⁶¹ Cr, ⁶² Mn deduced levels, J, π . ⁵⁸ V, ⁶¹ Cr, ^{62,63,64,65} Mn deduced transitions. ⁶⁰ V, ⁶² Mn deduced isomeric states. Comparison with model predictions. JOUR ZAANE 23 41
	2005GA01	NUCLEAR REACTIONS ⁵⁸ Ni(⁷⁶ Ge, X) ⁵⁷ Sc / ⁵⁸ Sc / ⁵⁸ Ti / ⁵⁹ Ti / ⁶⁰ Ti / ⁶⁰ V / ⁶¹ V / ⁶² V / ⁶³ V / ⁶² Cr / ⁶³ Cr / ⁶⁴ Cr / ⁶⁵ Cr / ⁶⁶ Cr / ⁶⁵ Mn / ⁶⁶ Mn, E=61.8 MeV / nucleon; measured yields. JOUR ZAANE 23 41

A=66 (continued)

	2005NIZZ	RADIOACTIVITY $^{63,64}\text{Cr}$, $^{65,66}\text{Mn}$, $^{67,68}\text{Fe}$, $^{69,70}\text{Co}(\beta^-)$ [from $\text{Be}(^{86}\text{Kr}, \text{X})$]; measured $E\beta$, $T_{1/2}$. Fragment separator, comparisons with previous results and model predictions. CONF Riken(Origin of Matter) Proc,P304,Nishimura
^{66}Fe	2005NIZZ	RADIOACTIVITY $^{63,64}\text{Cr}$, $^{65,66}\text{Mn}$, $^{67,68}\text{Fe}$, $^{69,70}\text{Co}(\beta^-)$ [from $\text{Be}(^{86}\text{Kr}, \text{X})$]; measured $E\beta$, $T_{1/2}$. Fragment separator, comparisons with previous results and model predictions. CONF Riken(Origin of Matter) Proc,P304,Nishimura
^{66}Ga	2005B010	NUCLEAR REACTIONS $\text{Zn}(\text{p}, \text{X})^{64}\text{Cu} / ^{57}\text{Ni} / ^{56}\text{Ni} / ^{52}\text{Mn} / ^{54}\text{Mn} / ^{62}\text{Zn} / ^{65}\text{Zn} / ^{51}\text{Cr} / ^{48}\text{V} / ^{55}\text{Co} / ^{56}\text{Co} / ^{57}\text{Co} / ^{58}\text{Co} / ^{60}\text{Co} / ^{66}\text{Ga} / ^{67}\text{Ga} / ^{52}\text{Fe} / ^{59}\text{Fe}$, $E \approx 31\text{-}141$ MeV; measured production σ . Stacked-foil activation. JOUR JRNCD 264 101

A=67

^{67}Fe	2005NIZZ	RADIOACTIVITY $^{63,64}\text{Cr}$, $^{65,66}\text{Mn}$, $^{67,68}\text{Fe}$, $^{69,70}\text{Co}(\beta^-)$ [from $\text{Be}(^{86}\text{Kr}, \text{X})$]; measured $E\beta$, $T_{1/2}$. Fragment separator, comparisons with previous results and model predictions. CONF Riken(Origin of Matter) Proc,P304,Nishimura
^{67}Co	2005NIZZ	RADIOACTIVITY $^{63,64}\text{Cr}$, $^{65,66}\text{Mn}$, $^{67,68}\text{Fe}$, $^{69,70}\text{Co}(\beta^-)$ [from $\text{Be}(^{86}\text{Kr}, \text{X})$]; measured $E\beta$, $T_{1/2}$. Fragment separator, comparisons with previous results and model predictions. CONF Riken(Origin of Matter) Proc,P304,Nishimura
^{67}Ga	2005B010	NUCLEAR REACTIONS $\text{Zn}(\text{p}, \text{X})^{64}\text{Cu} / ^{57}\text{Ni} / ^{56}\text{Ni} / ^{52}\text{Mn} / ^{54}\text{Mn} / ^{62}\text{Zn} / ^{65}\text{Zn} / ^{51}\text{Cr} / ^{48}\text{V} / ^{55}\text{Co} / ^{56}\text{Co} / ^{57}\text{Co} / ^{58}\text{Co} / ^{60}\text{Co} / ^{66}\text{Ga} / ^{67}\text{Ga} / ^{52}\text{Fe} / ^{59}\text{Fe}$, $E \approx 31\text{-}141$ MeV; measured production σ . Stacked-foil activation. JOUR JRNCD 264 101

A=68

^{68}Fe	2005NIZZ	RADIOACTIVITY $^{63,64}\text{Cr}$, $^{65,66}\text{Mn}$, $^{67,68}\text{Fe}$, $^{69,70}\text{Co}(\beta^-)$ [from $\text{Be}(^{86}\text{Kr}, \text{X})$]; measured $E\beta$, $T_{1/2}$. Fragment separator, comparisons with previous results and model predictions. CONF Riken(Origin of Matter) Proc,P304,Nishimura
^{68}Co	2005NIZZ	RADIOACTIVITY $^{63,64}\text{Cr}$, $^{65,66}\text{Mn}$, $^{67,68}\text{Fe}$, $^{69,70}\text{Co}(\beta^-)$ [from $\text{Be}(^{86}\text{Kr}, \text{X})$]; measured $E\beta$, $T_{1/2}$. Fragment separator, comparisons with previous results and model predictions. CONF Riken(Origin of Matter) Proc,P304,Nishimura
^{68}As	2005ST08	NUCLEAR REACTIONS $^{40}\text{Ca}(^{32}\text{S}, \text{n3p})$, $E=95, 105$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, (charged particle) γ -, (neutron) γ -coin. ^{68}As deduced high-spin levels, J , π , configurations. Euroball and Euclides arrays, total Routhian surface calculations. JOUR ZAANE 24 1

A=69

^{69}Co	2005NIZZ	RADIOACTIVITY $^{63,64}\text{Cr}$, $^{65,66}\text{Mn}$, $^{67,68}\text{Fe}$, $^{69,70}\text{Co}(\beta^-)$ [from $\text{Be}(^{86}\text{Kr}, \text{X})$]; measured $E\beta$, $T_{1/2}$. Fragment separator, comparisons with previous results and model predictions. CONF Riken(Origin of Matter) Proc,P304,Nishimura
^{69}Ni	2005NIZZ	RADIOACTIVITY $^{63,64}\text{Cr}$, $^{65,66}\text{Mn}$, $^{67,68}\text{Fe}$, $^{69,70}\text{Co}(\beta^-)$ [from $\text{Be}(^{86}\text{Kr}, \text{X})$]; measured $E\beta$, $T_{1/2}$. Fragment separator, comparisons with previous results and model predictions. CONF Riken(Origin of Matter) Proc,P304,Nishimura

A=70

^{70}Co	2005NIZZ	RADIOACTIVITY $^{63,64}\text{Cr}$, $^{65,66}\text{Mn}$, $^{67,68}\text{Fe}$, $^{69,70}\text{Co}(\beta^-)$ [from $\text{Be}(^{86}\text{Kr}, \text{X})$]; measured $E\beta$, $T_{1/2}$. Fragment separator, comparisons with previous results and model predictions. CONF Riken(Origin of Matter) Proc,P304,Nishimura
^{70}Ni	2005NIZZ	RADIOACTIVITY $^{63,64}\text{Cr}$, $^{65,66}\text{Mn}$, $^{67,68}\text{Fe}$, $^{69,70}\text{Co}(\beta^-)$ [from $\text{Be}(^{86}\text{Kr}, \text{X})$]; measured $E\beta$, $T_{1/2}$. Fragment separator, comparisons with previous results and model predictions. CONF Riken(Origin of Matter) Proc,P304,Nishimura
^{70}Ge	2004K064	NUCLEAR REACTIONS ^6Li , ^{16}O , ^{32}S , $^{50,51}\text{V}$, $^{70,72}\text{Ge}(\text{d}, \text{d})$, (d, d') , $E=171$ MeV; ^{90}Zr , $^{116}\text{Sn}(\text{d}, \text{d})$, (d, d') , $E=183$ MeV; measured $\sigma(\theta)$; deduced optical model parameters. JOUR PRVCA 70 067601
	2005BA13	NUCLEAR REACTIONS $^{70,72,74}\text{Ge}(^6\text{Li}, ^6\text{Li})$, $(^6\text{Li}, ^6\text{Li}')$, $E=28$ MeV; measured $\sigma(E, \theta)$, elastic $\sigma(\theta)$; deduced Coulomb-nuclear interference effects. $^{70,72,74}\text{Ge}$ levels deduced $B(E2) / B(\text{IS}2)$ ratio, mixed-symmetry effects. JOUR PRVCA 71 024303

A=71

No references found

A=72

^{72}Ga	2005LI02	RADIOACTIVITY $^{72}\text{Ga}(\beta^-)$ [from $^{71}\text{Ga}(\text{n}, \gamma)$]; measured β -delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced log ft. ^{72}Ge deduced levels, J , π , β -feeding intensities. JOUR CHPHD 14 95
	2005SH03	RADIOACTIVITY $^{72}\text{Ga}(\beta^-)$ [from $^{71}\text{Ga}(\text{n}, \gamma)$]; measured β -delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced log ft. ^{72}Ge deduced levels, J , π , β -feeding intensities. JOUR JUPSA 74 299
^{72}Ge	2004K064	NUCLEAR REACTIONS ^6Li , ^{16}O , ^{32}S , $^{50,51}\text{V}$, $^{70,72}\text{Ge}(\text{d}, \text{d})$, (d, d') , $E=171$ MeV; ^{90}Zr , $^{116}\text{Sn}(\text{d}, \text{d})$, (d, d') , $E=183$ MeV; measured $\sigma(\theta)$; deduced optical model parameters. JOUR PRVCA 70 067601
	2005BA13	NUCLEAR REACTIONS $^{70,72,74}\text{Ge}(^6\text{Li}, ^6\text{Li})$, $(^6\text{Li}, ^6\text{Li}')$, $E=28$ MeV; measured $\sigma(E, \theta)$, elastic $\sigma(\theta)$; deduced Coulomb-nuclear interference effects. $^{70,72,74}\text{Ge}$ levels deduced $B(E2) / B(\text{IS}2)$ ratio, mixed-symmetry effects. JOUR PRVCA 71 024303

A=72 (continued)

	2005LI02	RADIOACTIVITY $^{72}\text{Ga}(\beta^-)$ [from $^{71}\text{Ga}(\text{n}, \gamma)$]; measured β -delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced log ft. ^{72}Ge deduced levels, J, π , β -feeding intensities. JOUR CHPHD 14 95
	2005LI09	RADIOACTIVITY $^{72}\text{As}(\text{EC})$ [from $^{72}\text{Ge}(\text{p}, \text{n})$]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced log ft. ^{72}Ge deduced levels, J, π . JOUR CHPHD 14 487
	2005SH03	RADIOACTIVITY $^{72}\text{Ga}(\beta^-)$ [from $^{71}\text{Ga}(\text{n}, \gamma)$]; measured β -delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced log ft. ^{72}Ge deduced levels, J, π , β -feeding intensities. JOUR JUPSA 74 299
^{72}As	2005LI09	RADIOACTIVITY $^{72}\text{As}(\text{EC})$ [from $^{72}\text{Ge}(\text{p}, \text{n})$]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced log ft. ^{72}Ge deduced levels, J, π . JOUR CHPHD 14 487

A=73

No references found

A=74

^{74}Ge	2005BA13	NUCLEAR REACTIONS $^{70,72,74}\text{Ge}(^6\text{Li}, ^6\text{Li})$, $(^6\text{Li}, ^6\text{Li}')$, $E=28$ MeV; measured $\sigma(E, \theta)$, elastic $\sigma(\theta)$; deduced Coulomb-nuclear interference effects. $^{70,72,74}\text{Ge}$ levels deduced $B(E2) / B(\text{IS}2)$ ratio, mixed-symmetry effects. JOUR PRVCA 71 024303
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A=75

^{75}Ni	2005H008	RADIOACTIVITY $^{75,76,77,78}\text{Ni}$, $^{77,78}\text{Cu}(\beta^-)$ [from $\text{Be}(^{86}\text{Kr}, \text{X})$]; measured $T_{1/2}$. Astrophysical implications discussed. JOUR PRLTA 94 112501
^{75}Cu	2005H008	RADIOACTIVITY $^{75,76,77,78}\text{Ni}$, $^{77,78}\text{Cu}(\beta^-)$ [from $\text{Be}(^{86}\text{Kr}, \text{X})$]; measured $T_{1/2}$. Astrophysical implications discussed. JOUR PRLTA 94 112501

A=76

^{76}Ni	2005H008	RADIOACTIVITY $^{75,76,77,78}\text{Ni}$, $^{77,78}\text{Cu}(\beta^-)$ [from $\text{Be}(^{86}\text{Kr}, \text{X})$]; measured $T_{1/2}$. Astrophysical implications discussed. JOUR PRLTA 94 112501
^{76}Cu	2005H008	RADIOACTIVITY $^{75,76,77,78}\text{Ni}$, $^{77,78}\text{Cu}(\beta^-)$ [from $\text{Be}(^{86}\text{Kr}, \text{X})$]; measured $T_{1/2}$. Astrophysical implications discussed. JOUR PRLTA 94 112501
^{76}Ge	2005KL02	RADIOACTIVITY $^{76}\text{Ge}(2\beta^-)$; measured $0\nu\beta\beta$ -decay $T_{1/2}$; deduced non-conservation of lepton number. JOUR NPBSE 143 229
^{76}Se	2005KL02	RADIOACTIVITY $^{76}\text{Ge}(2\beta^-)$; measured $0\nu\beta\beta$ -decay $T_{1/2}$; deduced non-conservation of lepton number. JOUR NPBSE 143 229

A=76 (continued)

⁷⁶ Br	2004SCZU	NUCLEAR REACTIONS ⁷⁶ Se(p, n), E ≈ 5-40 MeV; ⁷⁸ Kr(d, α), E ≈ 4-14 MeV; measured σ. ¹²⁶ Te(p, 3n), E=8-70 MeV; ⁸⁵ Rb(p, 4n), E=44-66 MeV; measured yields. REPT NEA/NSC/DOC(2004)14,P13,Scholten
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A=77

⁷⁷ Ni	2005H008	RADIOACTIVITY ^{75,76,77,78} Ni, ^{77,78} Cu(β ⁻) [from Be(⁸⁶ Kr, X)]; measured T _{1/2} . Astrophysical implications discussed. JOUR PRLTA 94 112501
⁷⁷ Cu	2005H008	RADIOACTIVITY ^{75,76,77,78} Ni, ^{77,78} Cu(β ⁻) [from Be(⁸⁶ Kr, X)]; measured T _{1/2} . Astrophysical implications discussed. JOUR PRLTA 94 112501
⁷⁷ Zn	2005H008	RADIOACTIVITY ^{75,76,77,78} Ni, ^{77,78} Cu(β ⁻) [from Be(⁸⁶ Kr, X)]; measured T _{1/2} . Astrophysical implications discussed. JOUR PRLTA 94 112501

A=78

⁷⁸ Ni	2005H008	RADIOACTIVITY ^{75,76,77,78} Ni, ^{77,78} Cu(β ⁻) [from Be(⁸⁶ Kr, X)]; measured T _{1/2} . Astrophysical implications discussed. JOUR PRLTA 94 112501
⁷⁸ Cu	2005H008	RADIOACTIVITY ^{75,76,77,78} Ni, ^{77,78} Cu(β ⁻) [from Be(⁸⁶ Kr, X)]; measured T _{1/2} . Astrophysical implications discussed. JOUR PRLTA 94 112501
⁷⁸ Zn	2005H008	RADIOACTIVITY ^{75,76,77,78} Ni, ^{77,78} Cu(β ⁻) [from Be(⁸⁶ Kr, X)]; measured T _{1/2} . Astrophysical implications discussed. JOUR PRLTA 94 112501
⁷⁸ Ge	2005BE17	RADIOACTIVITY ¹²⁷ I(²⁴ Ne), (²⁸ Mg), (³⁰ Mg), (³² Si), (³⁴ Si), (⁴⁸ Ca), (⁴⁹ Sc); measured cluster decay T _{1/2} lower limits. JOUR ZAANE 24 51
⁷⁸ Kr	2005LE04	NUCLEAR REACTIONS Pb(p, X) ³ He / ⁴ He / ²¹ Ne / ²² Ne / ³⁶ Ar / ³⁸ Ar / ⁷⁸ Kr / ⁸⁰ Kr / ⁸¹ Kr / ⁸² Kr / ⁸³ Kr / ⁸⁴ Kr / ⁸⁵ Kr / ⁸⁶ Kr / ¹²⁴ Xe / ¹²⁶ Xe / ¹²⁸ Xe / ¹²⁹ Xe / ¹³⁰ Xe / ¹³¹ Xe / ¹³² Xe / ¹³⁴ Xe, E=44-2595 MeV; measured production σ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1

A=79

⁷⁹ As	2005BE17	RADIOACTIVITY ¹²⁷ I(²⁴ Ne), (²⁸ Mg), (³⁰ Mg), (³² Si), (³⁴ Si), (⁴⁸ Ca), (⁴⁹ Sc); measured cluster decay T _{1/2} lower limits. JOUR ZAANE 24 51
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A=80

⁸⁰Kr 2005LE04 NUCLEAR REACTIONS Pb(p, X)³He / ⁴He / ²¹Ne / ²²Ne / ³⁶Ar / ³⁸Ar / ⁷⁸Kr / ⁸⁰Kr / ⁸¹Kr / ⁸²Kr / ⁸³Kr / ⁸⁴Kr / ⁸⁵Kr / ⁸⁶Kr / ¹²⁴Xe / ¹²⁶Xe / ¹²⁸Xe / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³⁴Xe, E=44-2595 MeV; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1

A=81

⁸¹Kr 2005LE04 NUCLEAR REACTIONS Pb(p, X)³He / ⁴He / ²¹Ne / ²²Ne / ³⁶Ar / ³⁸Ar / ⁷⁸Kr / ⁸⁰Kr / ⁸¹Kr / ⁸²Kr / ⁸³Kr / ⁸⁴Kr / ⁸⁵Kr / ⁸⁶Kr / ¹²⁴Xe / ¹²⁶Xe / ¹²⁸Xe / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³⁴Xe, E=44-2595 MeV; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1

A=82

⁸²Se 2005SA07 RADIOACTIVITY ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹⁵⁰Nd($2\beta^-$); measured $2\nu\beta\beta$ -decay $T_{1/2}$. ⁸²Se, ¹⁰⁰Mo($2\beta^-$); measured $0\nu\beta\beta$ -decay $T_{1/2}$ lower limits; deduced neutrino mass limits. JOUR NPBSE 143 221

⁸²Kr 2005LE04 NUCLEAR REACTIONS Pb(p, X)³He / ⁴He / ²¹Ne / ²²Ne / ³⁶Ar / ³⁸Ar / ⁷⁸Kr / ⁸⁰Kr / ⁸¹Kr / ⁸²Kr / ⁸³Kr / ⁸⁴Kr / ⁸⁵Kr / ⁸⁶Kr / ¹²⁴Xe / ¹²⁶Xe / ¹²⁸Xe / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³⁴Xe, E=44-2595 MeV; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1

 2005SA07 RADIOACTIVITY ⁸²Se, ⁹⁶Zr, ¹⁰⁰Mo, ¹¹⁶Cd, ¹⁵⁰Nd($2\beta^-$); measured $2\nu\beta\beta$ -decay $T_{1/2}$. ⁸²Se, ¹⁰⁰Mo($2\beta^-$); measured $0\nu\beta\beta$ -decay $T_{1/2}$ lower limits; deduced neutrino mass limits. JOUR NPBSE 143 221

⁸²Sr 2004SCZU NUCLEAR REACTIONS ⁷⁶Se(p, n), E \approx 5-40 MeV; ⁷⁸Kr(d, α), E \approx 4-14 MeV; measured σ . ¹²⁶Te(p, 3n), E=8-70 MeV; ⁸⁵Rb(p, 4n), E=44-66 MeV; measured yields. REPT NEA/NSC/DOC(2004)14,P13,Scholten

A=83

⁸³Ge 2005TH03 NUCLEAR REACTIONS ²H(⁸²Ge, p), E=330 MeV; measured proton spectra, $\sigma(\theta)$, Q value. ⁸³Ge deduced levels, J, π , spectroscopic factors, mass excess. JOUR PRVCA 71 021302

⁸³Kr 2005LE04 NUCLEAR REACTIONS Pb(p, X)³He / ⁴He / ²¹Ne / ²²Ne / ³⁶Ar / ³⁸Ar / ⁷⁸Kr / ⁸⁰Kr / ⁸¹Kr / ⁸²Kr / ⁸³Kr / ⁸⁴Kr / ⁸⁵Kr / ⁸⁶Kr / ¹²⁴Xe / ¹²⁶Xe / ¹²⁸Xe / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³⁴Xe, E=44-2595 MeV; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1

A=84

- ⁸⁴Kr 2005LE04 NUCLEAR REACTIONS Pb(p, X)³He / ⁴He / ²¹Ne / ²²Ne / ³⁶Ar / ³⁸Ar / ⁷⁸Kr / ⁸⁰Kr / ⁸¹Kr / ⁸²Kr / ⁸³Kr / ⁸⁴Kr / ⁸⁵Kr / ⁸⁶Kr / ¹²⁴Xe / ¹²⁶Xe / ¹²⁸Xe / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³⁴Xe, E=44-2595 MeV; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1
- 2005W001 NUCLEAR REACTIONS ¹⁹⁷Au(⁸⁴Kr, ⁸⁴Kr'), (⁵⁶Cr, ⁵⁶Cr'), (¹⁰⁸Sn, ¹⁰⁸Sn'), E=113-142 MeV / nucleon; measured E γ , I γ following projectile Coulomb excitation. ⁸⁴Kr, ⁵⁶Cr, ¹⁰⁸Sn deduced transitions. ⁹Be(⁵⁵Ni, X)⁵⁴Co / ⁵²Fe / ⁵⁰Cr, E=171 MeV / nucleon; measured E γ , I γ , (particle) γ -coin. JOUR NIMAE 537 637

A=85

- ⁸⁵Kr 2005LE04 NUCLEAR REACTIONS Pb(p, X)³He / ⁴He / ²¹Ne / ²²Ne / ³⁶Ar / ³⁸Ar / ⁷⁸Kr / ⁸⁰Kr / ⁸¹Kr / ⁸²Kr / ⁸³Kr / ⁸⁴Kr / ⁸⁵Kr / ⁸⁶Kr / ¹²⁴Xe / ¹²⁶Xe / ¹²⁸Xe / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³⁴Xe, E=44-2595 MeV; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1

A=86

- ⁸⁶Kr 2005LE04 NUCLEAR REACTIONS Pb(p, X)³He / ⁴He / ²¹Ne / ²²Ne / ³⁶Ar / ³⁸Ar / ⁷⁸Kr / ⁸⁰Kr / ⁸¹Kr / ⁸²Kr / ⁸³Kr / ⁸⁴Kr / ⁸⁵Kr / ⁸⁶Kr / ¹²⁴Xe / ¹²⁶Xe / ¹²⁸Xe / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³⁴Xe, E=44-2595 MeV; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1

A=87

No references found

A=88

- ⁸⁸Sr 2004KA62 NUCLEAR REACTIONS ⁸⁸Sr(γ , γ'), E=6.8 MeV bremsstrahlung; measured E γ , I γ . ⁸⁸Sr deduced levels, J, π , configurations, B(E1), B(M1), B(E2). Comparison with model predictions. JOUR PRVCA 70 064307

A=89

⁸⁹ Kr	2004GAZV	NUCLEAR REACTIONS ²³⁷ Np, ²⁴³ Am(γ , F) ⁸⁹ Kr / ⁹¹ Kr / ⁹² Kr / ⁹³ Kr / ¹³⁵ Xe / ¹³⁷ Xe / ¹³⁸ Xe / ¹³⁹ Xe / ¹⁴⁰ Xe / ¹⁴¹ Xe / ¹⁴² Xe, E_{max} =25 MeV; measured $E\gamma$, $I\gamma$; deduced fission fragment yields. REPT JINR-P15-2004-119, Gangrsky
⁸⁹ Rb	2005AN01	NUCLEAR REACTIONS ²³⁸ U(p, F) ⁸⁹ Rb / ⁹⁰ Rb / ⁹¹ Rb / ⁹³ Rb / ⁹⁴ Rb / ⁹⁵ Rb / ¹³⁹ Cs / ¹⁴⁰ Cs / ¹⁴¹ Cs / ¹⁴² Cs / ¹⁴⁴ Cs / ¹⁴⁵ Cs, E=1 GeV; measured yields. JOUR ZAANE 23 257

A=90

⁹⁰ Rb	2005AN01	NUCLEAR REACTIONS ²³⁸ U(p, F) ⁸⁹ Rb / ⁹⁰ Rb / ⁹¹ Rb / ⁹³ Rb / ⁹⁴ Rb / ⁹⁵ Rb / ¹³⁹ Cs / ¹⁴⁰ Cs / ¹⁴¹ Cs / ¹⁴² Cs / ¹⁴⁴ Cs / ¹⁴⁵ Cs, E=1 GeV; measured yields. JOUR ZAANE 23 257
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A=91

⁹¹ Kr	2004GAZV	NUCLEAR REACTIONS ²³⁷ Np, ²⁴³ Am(γ , F) ⁸⁹ Kr / ⁹¹ Kr / ⁹² Kr / ⁹³ Kr / ¹³⁵ Xe / ¹³⁷ Xe / ¹³⁸ Xe / ¹³⁹ Xe / ¹⁴⁰ Xe / ¹⁴¹ Xe / ¹⁴² Xe, E_{max} =25 MeV; measured $E\gamma$, $I\gamma$; deduced fission fragment yields. REPT JINR-P15-2004-119, Gangrsky
⁹¹ Rb	2005AN01	NUCLEAR REACTIONS ²³⁸ U(p, F) ⁸⁹ Rb / ⁹⁰ Rb / ⁹¹ Rb / ⁹³ Rb / ⁹⁴ Rb / ⁹⁵ Rb / ¹³⁹ Cs / ¹⁴⁰ Cs / ¹⁴¹ Cs / ¹⁴² Cs / ¹⁴⁴ Cs / ¹⁴⁵ Cs, E=1 GeV; measured yields. JOUR ZAANE 23 257

A=92

⁹² Kr	2004GAZV	NUCLEAR REACTIONS ²³⁷ Np, ²⁴³ Am(γ , F) ⁸⁹ Kr / ⁹¹ Kr / ⁹² Kr / ⁹³ Kr / ¹³⁵ Xe / ¹³⁷ Xe / ¹³⁸ Xe / ¹³⁹ Xe / ¹⁴⁰ Xe / ¹⁴¹ Xe / ¹⁴² Xe, E_{max} =25 MeV; measured $E\gamma$, $I\gamma$; deduced fission fragment yields. REPT JINR-P15-2004-119, Gangrsky
⁹² Nb	2004ODZZ	NUCLEAR REACTIONS ⁸² Se(¹⁷ N, 7n), (¹⁷ N, 6n), E \approx 104 MeV; measured $E\gamma$, $I\gamma$. ^{92,93} Nb deduced transitions. REPT CNS-REP-64,P289, Odahara

A=93

⁹³ Kr	2004GAZV	NUCLEAR REACTIONS ²³⁷ Np, ²⁴³ Am(γ , F) ⁸⁹ Kr / ⁹¹ Kr / ⁹² Kr / ⁹³ Kr / ¹³⁵ Xe / ¹³⁷ Xe / ¹³⁸ Xe / ¹³⁹ Xe / ¹⁴⁰ Xe / ¹⁴¹ Xe / ¹⁴² Xe, E_{max} =25 MeV; measured $E\gamma$, $I\gamma$; deduced fission fragment yields. REPT JINR-P15-2004-119, Gangrsky
⁹³ Rb	2005AN01	NUCLEAR REACTIONS ²³⁸ U(p, F) ⁸⁹ Rb / ⁹⁰ Rb / ⁹¹ Rb / ⁹³ Rb / ⁹⁴ Rb / ⁹⁵ Rb / ¹³⁹ Cs / ¹⁴⁰ Cs / ¹⁴¹ Cs / ¹⁴² Cs / ¹⁴⁴ Cs / ¹⁴⁵ Cs, E=1 GeV; measured yields. JOUR ZAANE 23 257
⁹³ Y	2005BE17	RADIOACTIVITY ¹²⁷ I(²⁴ Ne), (²⁸ Mg), (³⁰ Mg), (³² Si), (³⁴ Si), (⁴⁸ Ca), (⁴⁹ Sc); measured cluster decay $T_{1/2}$ lower limits. JOUR ZAANE 24 51

A=93 (continued)

⁹³ Nb	20040DZZ	NUCLEAR REACTIONS ⁸² Se(¹⁷ N, 7n), (¹⁷ N, 6n), E ≈ 104 MeV; measured E γ , I γ . ^{92,93} Nb deduced transitions. REPT CNS-REP-64,P289,Odahara
⁹³ Mo	2004FUZX	NUCLEAR REACTIONS ⁸² Se(¹⁶ O, 5n), E=100 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ⁹³ Mo deduced high-spin levels, J, π , configurations, isomeric states T _{1/2} . REPT CNS-REP-64,P109,Fukuchi

A=94

⁹⁴ Rb	2005AN01	NUCLEAR REACTIONS ²³⁸ U(p, F) ⁸⁹ Rb / ⁹⁰ Rb / ⁹¹ Rb / ⁹³ Rb / ⁹⁴ Rb / ⁹⁵ Rb / ¹³⁹ Cs / ¹⁴⁰ Cs / ¹⁴¹ Cs / ¹⁴² Cs / ¹⁴⁴ Cs / ¹⁴⁵ Cs, E=1 GeV; measured yields. JOUR ZAANE 23 257
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A=95

⁹⁵ Rb	2005AN01	NUCLEAR REACTIONS ²³⁸ U(p, F) ⁸⁹ Rb / ⁹⁰ Rb / ⁹¹ Rb / ⁹³ Rb / ⁹⁴ Rb / ⁹⁵ Rb / ¹³⁹ Cs / ¹⁴⁰ Cs / ¹⁴¹ Cs / ¹⁴² Cs / ¹⁴⁴ Cs / ¹⁴⁵ Cs, E=1 GeV; measured yields. JOUR ZAANE 23 257
⁹⁵ Y	2005BE17	RADIOACTIVITY ¹²⁷ I(²⁴ Ne), (²⁸ Mg), (³⁰ Mg), (³² Si), (³⁴ Si), (⁴⁸ Ca), (⁴⁹ Sc); measured cluster decay T _{1/2} lower limits. JOUR ZAANE 24 51
⁹⁵ Zr	2004MIZS	NUCLEAR REACTIONS Fe(p, X) ⁵² Mn, E < 2.6 GeV; Pb(p, X) ¹⁰ Be, E < 2.6 GeV; ²⁰⁹ Bi(p, 4np), E < 2.6 GeV; Pb(n, X) ¹⁹⁶ Au / ⁹⁵ Zr, E ≈ 70-180 MeV; measured excitation functions. Comparison with model predictions. REPT NEA/NSC/DOC(2004)14,P28,Michel

A=96

⁹⁶ Sr	2004WU08	NUCLEAR REACTIONS ²³⁸ U(α , F) ⁹⁶ Sr / ⁹⁷ Sr / ⁹⁸ Zr / ⁹⁹ Zr, E=30 MeV; measured E γ , I γ , $\gamma\gamma$ -, (fragment) γ -coin. ^{96,97} Sr, ^{98,99} Zr deduced high-spin levels, J, π , configurations. Gammasphere, Chico arrays. JOUR PRVCA 70 064312
⁹⁶ Zr	2005SA07	RADIOACTIVITY ⁸² Se, ⁹⁶ Zr, ¹⁰⁰ Mo, ¹¹⁶ Cd, ¹⁵⁰ Nd(2 β^-); measured 2 $\nu\beta\beta$ -decay T _{1/2} . ⁸² Se, ¹⁰⁰ Mo(2 β^-); measured 0 $\nu\beta\beta$ -decay T _{1/2} lower limits; deduced neutrino mass limits. JOUR NPBSE 143 221
⁹⁶ Mo	2005SA07	RADIOACTIVITY ⁸² Se, ⁹⁶ Zr, ¹⁰⁰ Mo, ¹¹⁶ Cd, ¹⁵⁰ Nd(2 β^-); measured 2 $\nu\beta\beta$ -decay T _{1/2} . ⁸² Se, ¹⁰⁰ Mo(2 β^-); measured 0 $\nu\beta\beta$ -decay T _{1/2} lower limits; deduced neutrino mass limits. JOUR NPBSE 143 221

A=97

⁹⁷ Sr	2004WU08	NUCLEAR REACTIONS ²³⁸ U(α , F) ⁹⁶ Sr / ⁹⁷ Sr / ⁹⁸ Zr / ⁹⁹ Zr, E=30 MeV; measured E γ , I γ , $\gamma\gamma$ -, (fragment) γ -coin. ^{96,97} Sr, ^{98,99} Zr deduced high-spin levels, J, π , configurations. Gammasphere, Chico arrays. JOUR PRVCA 70 064312
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A=97 (continued)

⁹⁷ Nb	2005BE17	RADIOACTIVITY ¹²⁷ I(²⁴ Ne), (²⁸ Mg), (³⁰ Mg), (³² Si), (³⁴ Si), (⁴⁸ Ca), (⁴⁹ Sc); measured cluster decay T _{1/2} lower limits. JOUR ZAANE 24 51
⁹⁷ Ru	2005UD01	NUCLEAR REACTIONS Ag(p, X) ^{106m} Ag / ¹⁰⁵ Ag / ¹⁰³ Pd / ¹⁰¹ Pd / ¹⁰⁰ Pd / ¹⁰⁵ Rh / ¹⁰² Rh / ^{101m} Rh / ¹⁰⁰ Rh / ⁹⁹ Rh / ⁹⁷ Ru, E=11-80 MeV; measured excitation functions. Stacked-foil activation. JOUR ARISE 62 533

A=98

⁹⁸ Zr	2004WU08	NUCLEAR REACTIONS ²³⁸ U(α, F) ⁹⁶ Sr / ⁹⁷ Sr / ⁹⁸ Zr / ⁹⁹ Zr, E=30 MeV; measured Eγ, Iγ, γγ-, (fragment)γ-coin. ^{96,97} Sr, ^{98,99} Zr deduced high-spin levels, J, π, configurations. Gammasphere, Chico arrays. JOUR PRVCA 70 064312
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A=99

⁹⁹ Zr	2004WU08	NUCLEAR REACTIONS ²³⁸ U(α, F) ⁹⁶ Sr / ⁹⁷ Sr / ⁹⁸ Zr / ⁹⁹ Zr, E=30 MeV; measured Eγ, Iγ, γγ-, (fragment)γ-coin. ^{96,97} Sr, ^{98,99} Zr deduced high-spin levels, J, π, configurations. Gammasphere, Chico arrays. JOUR PRVCA 70 064312
⁹⁹ Nb	2005BE17	RADIOACTIVITY ¹²⁷ I(²⁴ Ne), (²⁸ Mg), (³⁰ Mg), (³² Si), (³⁴ Si), (⁴⁸ Ca), (⁴⁹ Sc); measured cluster decay T _{1/2} lower limits. JOUR ZAANE 24 51
⁹⁹ Rh	2005UD01	NUCLEAR REACTIONS Ag(p, X) ^{106m} Ag / ¹⁰⁵ Ag / ¹⁰³ Pd / ¹⁰¹ Pd / ¹⁰⁰ Pd / ¹⁰⁵ Rh / ¹⁰² Rh / ^{101m} Rh / ¹⁰⁰ Rh / ⁹⁹ Rh / ⁹⁷ Ru, E=11-80 MeV; measured excitation functions. Stacked-foil activation. JOUR ARISE 62 533

A=100

¹⁰⁰ Mo	2005BA01	RADIOACTIVITY ¹⁰⁰ Mo(2β ⁻); measured 2ν2β-decay Eβ, T _{1/2} . JOUR NPBSE 138 207
	2005SA07	RADIOACTIVITY ⁸² Se, ⁹⁶ Zr, ¹⁰⁰ Mo, ¹¹⁶ Cd, ¹⁵⁰ Nd(2β ⁻); measured 2νββ-decay T _{1/2} . ⁸² Se, ¹⁰⁰ Mo(2β ⁻); measured 0νββ-decay T _{1/2} lower limits; deduced neutrino mass limits. JOUR NPBSE 143 221
¹⁰⁰ Tc	2004FU30	NUCLEAR REACTIONS ⁹⁹ Tc(n, γ), E=thermal; measured Eγ, Iγ, capture σ. ¹⁰⁰ Tc deduced levels, J, π. JOUR JNSTA 41 1033
	2005J004	NUCLEAR REACTIONS ⁹⁶ Zr(⁷ Li, 3n), E=27 MeV; measured Eγ, Iγ, γγ-coin. ¹⁰⁰ Tc deduced levels, J, π, B(M1) / B(E2), chiral partner bands. Total Routhian surface and core quasi-particle coupling model calculations. JOUR ZAANE 24 23
¹⁰⁰ Ru	2005BA01	RADIOACTIVITY ¹⁰⁰ Mo(2β ⁻); measured 2ν2β-decay Eβ, T _{1/2} . JOUR NPBSE 138 207
	2005SA07	RADIOACTIVITY ⁸² Se, ⁹⁶ Zr, ¹⁰⁰ Mo, ¹¹⁶ Cd, ¹⁵⁰ Nd(2β ⁻); measured 2νββ-decay T _{1/2} . ⁸² Se, ¹⁰⁰ Mo(2β ⁻); measured 0νββ-decay T _{1/2} lower limits; deduced neutrino mass limits. JOUR NPBSE 143 221

A=100 (*continued*)

^{100}Rh	2005UD01	NUCLEAR REACTIONS $\text{Ag}(\text{p}, \text{X})^{106\text{m}}\text{Ag} / ^{105}\text{Ag} / ^{103}\text{Pd} / ^{101}\text{Pd} / ^{100}\text{Pd} / ^{105}\text{Rh} / ^{102}\text{Rh} / ^{101\text{m}}\text{Rh} / ^{100}\text{Rh} / ^{99}\text{Rh} / ^{97}\text{Ru}$, E=11-80 MeV; measured excitation functions. Stacked-foil activation. JOUR ARISE 62 533
^{100}Pd	2005UD01	NUCLEAR REACTIONS $\text{Ag}(\text{p}, \text{X})^{106\text{m}}\text{Ag} / ^{105}\text{Ag} / ^{103}\text{Pd} / ^{101}\text{Pd} / ^{100}\text{Pd} / ^{105}\text{Rh} / ^{102}\text{Rh} / ^{101\text{m}}\text{Rh} / ^{100}\text{Rh} / ^{99}\text{Rh} / ^{97}\text{Ru}$, E=11-80 MeV; measured excitation functions. Stacked-foil activation. JOUR ARISE 62 533

A=101

^{101}Rh	2005UD01	NUCLEAR REACTIONS $\text{Ag}(\text{p}, \text{X})^{106\text{m}}\text{Ag} / ^{105}\text{Ag} / ^{103}\text{Pd} / ^{101}\text{Pd} / ^{100}\text{Pd} / ^{105}\text{Rh} / ^{102}\text{Rh} / ^{101\text{m}}\text{Rh} / ^{100}\text{Rh} / ^{99}\text{Rh} / ^{97}\text{Ru}$, E=11-80 MeV; measured excitation functions. Stacked-foil activation. JOUR ARISE 62 533
^{101}Pd	2005UD01	NUCLEAR REACTIONS $\text{Ag}(\text{p}, \text{X})^{106\text{m}}\text{Ag} / ^{105}\text{Ag} / ^{103}\text{Pd} / ^{101}\text{Pd} / ^{100}\text{Pd} / ^{105}\text{Rh} / ^{102}\text{Rh} / ^{101\text{m}}\text{Rh} / ^{100}\text{Rh} / ^{99}\text{Rh} / ^{97}\text{Ru}$, E=11-80 MeV; measured excitation functions. Stacked-foil activation. JOUR ARISE 62 533

A=102

^{102}Rh	2005UD01	NUCLEAR REACTIONS $\text{Ag}(\text{p}, \text{X})^{106\text{m}}\text{Ag} / ^{105}\text{Ag} / ^{103}\text{Pd} / ^{101}\text{Pd} / ^{100}\text{Pd} / ^{105}\text{Rh} / ^{102}\text{Rh} / ^{101\text{m}}\text{Rh} / ^{100}\text{Rh} / ^{99}\text{Rh} / ^{97}\text{Ru}$, E=11-80 MeV; measured excitation functions. Stacked-foil activation. JOUR ARISE 62 533
^{102}Sn	2005JA03	RADIOACTIVITY ^{110}Xe , $^{106}\text{Te}(\alpha)$ [from $^{58}\text{Ni}(^{58}\text{Ni}, 2\text{n}\alpha)$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$; deduced α -decay widths. Mass separator. JOUR ZAANE 23 197

A=103

^{103}Tc	2005BE17	RADIOACTIVITY $^{127}\text{I}(^{24}\text{Ne})$, (^{28}Mg) , (^{30}Mg) , (^{32}Si) , (^{34}Si) , (^{48}Ca) , (^{49}Sc) ; measured cluster decay $T_{1/2}$ lower limits. JOUR ZAANE 24 51
^{103}Pd	2004HIZZ	NUCLEAR REACTIONS $^{102}\text{Ru}(^3\text{He}, 2\text{n})$, $^{100}\text{Ru}(\alpha, \text{n})$, $^{103}\text{Rh}(\text{d}, 2\text{n})$, (p, n) , E \approx 5-35 MeV; analyzed excitation functions, yields. $\text{Ce}(^3\text{He}, \text{xn})^{140}\text{Nd}$, E < 27 MeV; $^{141}\text{Pr}(\text{p}, 2\text{n})$, E < 23 MeV; measured yields. $^{192}\text{Os}(\text{p}, \text{n})$, E \approx 6-20; measured σ . REPT
	2005UD01	NEA/NSC/DOC(2004)14,P15,Hilgers NUCLEAR REACTIONS $\text{Ag}(\text{p}, \text{X})^{106\text{m}}\text{Ag} / ^{105}\text{Ag} / ^{103}\text{Pd} / ^{101}\text{Pd} / ^{100}\text{Pd} / ^{105}\text{Rh} / ^{102}\text{Rh} / ^{101\text{m}}\text{Rh} / ^{100}\text{Rh} / ^{99}\text{Rh} / ^{97}\text{Ru}$, E=11-80 MeV; measured excitation functions. Stacked-foil activation. JOUR ARISE 62 533

A=103 (*continued*)

^{103}Ag	2005HE05	NUCLEAR REACTIONS Pd(α , xnyp) ^{103}Ag / ^{104}Ag / ^{105}Ag / ^{106m}Ag / ^{110m}Ag / ^{111}Ag / ^{112}Ag / ^{104}Cd / ^{105}Cd / ^{111m}Cd , E=10-37 MeV; measured σ . Stacked-foil activation, comparison with model predictions. JOUR NIMBE 229 321
^{103}Sn	2004HA59	RADIOACTIVITY $^{107}\text{Te}(\alpha)$ [from $^{58}\text{Ni}(^{52}\text{Cr}, 3n)$]; measured $E\alpha$, $I\alpha$. JOUR PRVCA 70 064314

A=104

^{104}Ag	2005HE05	NUCLEAR REACTIONS Pd(α , xnyp) ^{103}Ag / ^{104}Ag / ^{105}Ag / ^{106m}Ag / ^{110m}Ag / ^{111}Ag / ^{112}Ag / ^{104}Cd / ^{105}Cd / ^{111m}Cd , E=10-37 MeV; measured σ . Stacked-foil activation, comparison with model predictions. JOUR NIMBE 229 321
^{104}Cd	2005HE05	NUCLEAR REACTIONS Pd(α , xnyp) ^{103}Ag / ^{104}Ag / ^{105}Ag / ^{106m}Ag / ^{110m}Ag / ^{111}Ag / ^{112}Ag / ^{104}Cd / ^{105}Cd / ^{111m}Cd , E=10-37 MeV; measured σ . Stacked-foil activation, comparison with model predictions. JOUR NIMBE 229 321

A=105

^{105}Rh	2005M007	RADIOACTIVITY $^{105}\text{Rh}(\beta^-)$ [from $^{104}\text{Rh}(n, \gamma)$]; measured $E\gamma$, $I\gamma$, $\beta\gamma$ -coin; deduced γ -emission probabilities. ^{105}Pd deduced levels, β -feeding intensities. Comparison with previous results. JOUR NIMAE 540 324
	2005UD01	NUCLEAR REACTIONS Ag(p, X) ^{106m}Ag / ^{105}Ag / ^{103}Pd / ^{101}Pd / ^{100}Pd / ^{105}Rh / ^{102}Rh / ^{101m}Rh / ^{100}Rh / ^{99}Rh / ^{97}Ru , E=11-80 MeV; measured excitation functions. Stacked-foil activation. JOUR ARISE 62 533
^{105}Pd	2005M007	RADIOACTIVITY $^{105}\text{Rh}(\beta^-)$ [from $^{104}\text{Rh}(n, \gamma)$]; measured $E\gamma$, $I\gamma$, $\beta\gamma$ -coin; deduced γ -emission probabilities. ^{105}Pd deduced levels, β -feeding intensities. Comparison with previous results. JOUR NIMAE 540 324
^{105}Ag	2005HE05	NUCLEAR REACTIONS Pd(α , xnyp) ^{103}Ag / ^{104}Ag / ^{105}Ag / ^{106m}Ag / ^{110m}Ag / ^{111}Ag / ^{112}Ag / ^{104}Cd / ^{105}Cd / ^{111m}Cd , E=10-37 MeV; measured σ . Stacked-foil activation, comparison with model predictions. JOUR NIMBE 229 321
	2005UD01	NUCLEAR REACTIONS Ag(p, X) ^{106m}Ag / ^{105}Ag / ^{103}Pd / ^{101}Pd / ^{100}Pd / ^{105}Rh / ^{102}Rh / ^{101m}Rh / ^{100}Rh / ^{99}Rh / ^{97}Ru , E=11-80 MeV; measured excitation functions. Stacked-foil activation. JOUR ARISE 62 533
^{105}Cd	2005HE05	NUCLEAR REACTIONS Pd(α , xnyp) ^{103}Ag / ^{104}Ag / ^{105}Ag / ^{106m}Ag / ^{110m}Ag / ^{111}Ag / ^{112}Ag / ^{104}Cd / ^{105}Cd / ^{111m}Cd , E=10-37 MeV; measured σ . Stacked-foil activation, comparison with model predictions. JOUR NIMBE 229 321

A=106

^{106}Pd	2005ZU01	RADIOACTIVITY $^{120}\text{Te}(\beta^+\text{EC})$; ^{64}Zn , $^{106,108}\text{Cd}$, $^{120}\text{Te}(2\text{EC})$; measured $T_{1/2}$ lower limits. JOUR NPBSE 138 236
^{106}Ag	2005HE05	NUCLEAR REACTIONS $\text{Pd}(\alpha, \text{xnyp})^{103}\text{Ag}$ / ^{104}Ag / ^{105}Ag / ^{106m}Ag / ^{110m}Ag / ^{111}Ag / ^{112}Ag / ^{104}Cd / ^{105}Cd / ^{111m}Cd , $E=10\text{-}37$ MeV; measured σ . Stacked-foil activation, comparison with model predictions. JOUR NIMBE 229 321
	2005UD01	NUCLEAR REACTIONS $\text{Ag}(\text{p}, \text{X})^{106m}\text{Ag}$ / ^{105}Ag / ^{103}Pd / ^{101}Pd / ^{100}Pd / ^{105}Rh / ^{102}Rh / ^{101m}Rh / ^{100}Rh / ^{99}Rh / ^{97}Ru , $E=11\text{-}80$ MeV; measured excitation functions. Stacked-foil activation. JOUR ARISE 62 533
^{106}Cd	2005ZU01	RADIOACTIVITY $^{120}\text{Te}(\beta^+\text{EC})$; ^{64}Zn , $^{106,108}\text{Cd}$, $^{120}\text{Te}(2\text{EC})$; measured $T_{1/2}$ lower limits. JOUR NPBSE 138 236
^{106}Te	2005JA03	RADIOACTIVITY ^{110}Xe , $^{106}\text{Te}(\alpha)$ [from $^{58}\text{Ni}(^{58}\text{Ni}, 2n\alpha)$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$; deduced α -decay widths. Mass separator. JOUR ZAANE 23 197

A=107

^{107}Te	2004HA59	NUCLEAR REACTIONS $^{58}\text{Ni}(^{52}\text{Cr}, 3n)$, $E=187$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, (recoil) γ -coin. ^{107}Te deduced transitions, excited state. Jurogam array, recoil-decay tagging. JOUR PRVCA 70 064314
	2004HA59	RADIOACTIVITY $^{107}\text{Te}(\alpha)$ [from $^{58}\text{Ni}(^{52}\text{Cr}, 3n)$]; measured $E\alpha$, $I\alpha$. JOUR PRVCA 70 064314

A=108

^{108}Pd	2005ZU01	RADIOACTIVITY $^{120}\text{Te}(\beta^+\text{EC})$; ^{64}Zn , $^{106,108}\text{Cd}$, $^{120}\text{Te}(2\text{EC})$; measured $T_{1/2}$ lower limits. JOUR NPBSE 138 236
^{108}Cd	2005ZU01	RADIOACTIVITY $^{120}\text{Te}(\beta^+\text{EC})$; ^{64}Zn , $^{106,108}\text{Cd}$, $^{120}\text{Te}(2\text{EC})$; measured $T_{1/2}$ lower limits. JOUR NPBSE 138 236
^{108}Sn	2005W001	NUCLEAR REACTIONS $^{197}\text{Au}(^{84}\text{Kr}, ^{84}\text{Kr}')$, $(^{56}\text{Cr}, ^{56}\text{Cr}')$, $(^{108}\text{Sn}, ^{108}\text{Sn}')$, $E=113\text{-}142$ MeV / nucleon; measured $E\gamma$, $I\gamma$ following projectile Coulomb excitation. ^{84}Kr , ^{56}Cr , ^{108}Sn deduced transitions. $^9\text{Be}(^{55}\text{Ni}, \text{X})^{54}\text{Co}$ / ^{52}Fe / ^{50}Cr , $E=171$ MeV / nucleon; measured $E\gamma$, $I\gamma$, (particle) γ -coin. JOUR NIMAE 537 637

A=109

^{109}Cd	2005GYZZ	RADIOACTIVITY ^{109}In , $^{110}\text{Sn}(\text{EC})$ [from $^{106}\text{Cd}(\alpha, \text{X})$]; measured $E\gamma$, $I\gamma$, $T_{1/2}$. PREPRINT nucl-ex/0503012,3/18/2005
^{109}In	2004ADZW	NUCLEAR REACTIONS $^{209}\text{Bi}(n, 4n)$, $(n, 5n)$, $(n, 6n)$, $(n, 7n)$, $(n, 9n)$, $^{232}\text{Th}(n, \gamma)$, $^{197}\text{Au}(n, 2n)$, $(n, 4n)$, $(n, 6n)$, $(n, 7n)$, (n, γ) , $^{115}\text{In}(n, 5n)$, $(n, 6n)$, $(n, 7n)$, $^{59}\text{Co}(n, 2n)$, $(n, 3n)$, $(n, 4n)$, $(n, 5n)$, (n, γ) , (n, p) , $(n, 6n2p)$, $E=\text{spectrum}$; measured $E\gamma$, $I\gamma$; deduced reaction rates. $\text{Pb}(\text{p}, n\text{X})$, $E=1$ GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam

A=109 (*continued*)

- 2005AD01 NUCLEAR REACTIONS $^{209}\text{Bi}(\text{n}, 4\text{n}), (\text{n}, 5\text{n}), (\text{n}, 6\text{n}), (\text{n}, 7\text{n}), (\text{n}, 9\text{n}), ^{232}\text{Th}(\text{n}, \gamma), ^{197}\text{Au}(\text{n}, 2\text{n}), (\text{n}, 4\text{n}), (\text{n}, 6\text{n}), (\text{n}, 7\text{n}), (\text{n}, \gamma), ^{59}\text{Co}(\text{n}, 2\text{n}), (\text{n}, 3\text{n}), (\text{n}, 4\text{n}), (\text{n}, 5\text{n}), (\text{n}, \text{p}), (\text{n}, 6\text{n}2\text{p}), ^{115}\text{In}(\text{n}, 5\text{n}), (\text{n}, 6\text{n}), (\text{n}, 7\text{n}), \text{E=spectrum}; \text{measured } E\gamma, I\gamma; \text{deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61}$
- 2005GYZZ RADIOACTIVITY $^{109}\text{In}, ^{110}\text{Sn}(\text{EC})$ [from $^{106}\text{Cd}(\alpha, \text{X})$]; measured $E\gamma, I\gamma, T_{1/2}$. PREPRINT nucl-ex/0503012,3/18/2005

A=110

- ^{110}Ag 2005HE05 NUCLEAR REACTIONS $\text{Pd}(\alpha, \text{xnyp})^{103}\text{Ag} / ^{104}\text{Ag} / ^{105}\text{Ag} / ^{106\text{m}}\text{Ag} / ^{110\text{m}}\text{Ag} / ^{111}\text{Ag} / ^{112}\text{Ag} / ^{104}\text{Cd} / ^{105}\text{Cd} / ^{111\text{m}}\text{Cd}, \text{E}=10\text{-}37 \text{ MeV}; \text{measured } \sigma. \text{ Stacked-foil activation, comparison with model predictions. JOUR NIMBE 229 321}$
- ^{110}In 2004ADZW NUCLEAR REACTIONS $^{209}\text{Bi}(\text{n}, 4\text{n}), (\text{n}, 5\text{n}), (\text{n}, 6\text{n}), (\text{n}, 7\text{n}), (\text{n}, 9\text{n}), ^{232}\text{Th}(\text{n}, \gamma), ^{197}\text{Au}(\text{n}, 2\text{n}), (\text{n}, 4\text{n}), (\text{n}, 6\text{n}), (\text{n}, 7\text{n}), (\text{n}, \gamma), ^{115}\text{In}(\text{n}, 5\text{n}), (\text{n}, 6\text{n}), (\text{n}, 7\text{n}), ^{59}\text{Co}(\text{n}, 2\text{n}), (\text{n}, 3\text{n}), (\text{n}, 4\text{n}), (\text{n}, 5\text{n}), (\text{n}, \gamma), (\text{n}, \text{p}), (\text{n}, 6\text{n}2\text{p}), \text{E=spectrum}; \text{measured } E\gamma, I\gamma; \text{deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16,Adam}$
- 2005AD01 NUCLEAR REACTIONS $^{209}\text{Bi}(\text{n}, 4\text{n}), (\text{n}, 5\text{n}), (\text{n}, 6\text{n}), (\text{n}, 7\text{n}), (\text{n}, 9\text{n}), ^{232}\text{Th}(\text{n}, \gamma), ^{197}\text{Au}(\text{n}, 2\text{n}), (\text{n}, 4\text{n}), (\text{n}, 6\text{n}), (\text{n}, 7\text{n}), (\text{n}, \gamma), ^{59}\text{Co}(\text{n}, 2\text{n}), (\text{n}, 3\text{n}), (\text{n}, 4\text{n}), (\text{n}, 5\text{n}), (\text{n}, \text{p}), (\text{n}, 6\text{n}2\text{p}), ^{115}\text{In}(\text{n}, 5\text{n}), (\text{n}, 6\text{n}), (\text{n}, 7\text{n}), \text{E=spectrum}; \text{measured } E\gamma, I\gamma; \text{deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61}$
- 2005GYZZ RADIOACTIVITY $^{109}\text{In}, ^{110}\text{Sn}(\text{EC})$ [from $^{106}\text{Cd}(\alpha, \text{X})$]; measured $E\gamma, I\gamma, T_{1/2}$. PREPRINT nucl-ex/0503012,3/18/2005
- ^{110}Sn 2005BA18 NUCLEAR REACTIONS $^{112}\text{Sn}(\text{d}, \text{p}), (\text{d}, 3\text{np}), (\text{p}, 2\text{np}), ^{118}\text{Sn}(\text{d}, 2\text{n}), (\text{d}, 3\text{n}), (\text{d}, 5\text{n}), (\text{d}, 2\text{np}), (\text{d}, 6\text{np}), (\text{d}, 9\text{np}), (\text{p}, \text{n}), (\text{p}, 3\text{n}), (\text{p}, 4\text{n}), (\text{p}, \text{np}), (\text{p}, 5\text{np}), (\text{p}, 8\text{np}), ^{120}\text{Sn}(\text{d}, 2\text{n}), (\text{d}, 4\text{n}), (\text{d}, 6\text{n}), (\text{d}, 7\text{n}), (\text{d}, 4\text{np}), (\text{d}, 8\text{np}), (\text{d}, 11\text{np}), (\text{p}, \text{n}), (\text{p}, 3\text{n}), (\text{p}, 5\text{n}), (\text{p}, 6\text{n}), (\text{p}, 3\text{np}), (\text{p}, 7\text{np}), (\text{p}, 10\text{np}), ^{124}\text{Sn}(\text{d}, 2\text{n}), (\text{d}, 4\text{n}), (\text{d}, 6\text{n}), (\text{d}, 8\text{n}), (\text{d}, 10\text{n}), (\text{d}, 11\text{n}), (\text{d}, 2\text{np}), (\text{d}, 8\text{np}), (\text{d}, 12\text{np}), (\text{d}, 15\text{np}), (\text{p}, \text{n}), (\text{p}, 3\text{n}), (\text{p}, 5\text{n}), (\text{p}, 7\text{n}), (\text{p}, 9\text{n}), (\text{p}, 10\text{n}), (\text{p}, \text{np}), (\text{p}, 7\text{np}), (\text{p}, 11\text{np}), (\text{p}, 14\text{np}), \text{E}=3.65 \text{ GeV} / \text{nucleon}; \text{measured } \sigma. ^{120}\text{Sn}(\text{p}, \text{X}), \text{E}=0.66 \text{ GeV}; \text{measured spallation fragments mass distribution. Activation technique, comparison with model predictions. JOUR YAFIA 68 195}$
- 2005GYZZ RADIOACTIVITY $^{109}\text{In}, ^{110}\text{Sn}(\text{EC})$ [from $^{106}\text{Cd}(\alpha, \text{X})$]; measured $E\gamma, I\gamma, T_{1/2}$. PREPRINT nucl-ex/0503012,3/18/2005
- ^{110}Xe 2005JA03 RADIOACTIVITY $^{110}\text{Xe}, ^{106}\text{Te}(\alpha)$ [from $^{58}\text{Ni}(^{58}\text{Ni}, 2\text{n}\alpha)$ and subsequent decay]; measured $E\alpha, T_{1/2}$; deduced α -decay widths. Mass separator. JOUR ZAANE 23 197

A=111

¹¹¹ Ag	2005HE05	NUCLEAR REACTIONS Pd(α , xnyp) ¹⁰³ Ag / ¹⁰⁴ Ag / ¹⁰⁵ Ag / ^{106m} Ag / ^{110m} Ag / ¹¹¹ Ag / ¹¹² Ag / ¹⁰⁴ Cd / ¹⁰⁵ Cd / ^{111m} Cd, E=10-37 MeV; measured σ . Stacked-foil activation, comparison with model predictions. JOUR NIMBE 229 321
¹¹¹ Cd	2005HE05	NUCLEAR REACTIONS Pd(α , xnyp) ¹⁰³ Ag / ¹⁰⁴ Ag / ¹⁰⁵ Ag / ^{106m} Ag / ^{110m} Ag / ¹¹¹ Ag / ¹¹² Ag / ¹⁰⁴ Cd / ¹⁰⁵ Cd / ^{111m} Cd, E=10-37 MeV; measured σ . Stacked-foil activation, comparison with model predictions. JOUR NIMBE 229 321
¹¹¹ In	2004ADZW	NUCLEAR REACTIONS ²⁰⁹ Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³² Th(n, γ), ¹⁹⁷ Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ¹¹⁵ In(n, 5n), (n, 6n), (n, 7n), ⁵⁹ Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, γ), (n, p), (n, 6n2p), E=spectrum; measured E γ , I γ ; deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16,Adam
	2005AD01	NUCLEAR REACTIONS ²⁰⁹ Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³² Th(n, γ), ¹⁹⁷ Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ⁵⁹ Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, p), (n, 6n2p), ¹¹⁵ In(n, 5n), (n, 6n), (n, 7n), E=spectrum; measured E γ , I γ ; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61

A=112

¹¹² Ag	2005HE05	NUCLEAR REACTIONS Pd(α , xnyp) ¹⁰³ Ag / ¹⁰⁴ Ag / ¹⁰⁵ Ag / ^{106m} Ag / ^{110m} Ag / ¹¹¹ Ag / ¹¹² Ag / ¹⁰⁴ Cd / ¹⁰⁵ Cd / ^{111m} Cd, E=10-37 MeV; measured σ . Stacked-foil activation, comparison with model predictions. JOUR NIMBE 229 321
¹¹² Sn	2004KU30	NUCLEAR REACTIONS ^{112,114,120,124} Sn(α , α'), (α , α'), E \approx 50 MeV; measured $\sigma(E, \theta)$; deduced optical model parameters. ^{112,114,120,124} Sn deduced transition strengths, deformation parameters, related features. JOUR UKPJA 49 841
¹¹² Sb	2005DE02	NUCLEAR REACTIONS ⁸⁹ Y(³⁰ Si, 3n α), E=120 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, DSA. ¹¹² Sb levels deduced T _{1/2} , B(M1), B(E2). Comparisons with tilted axis cranking model predictions. JOUR PRVCA 71 017303

A=113

¹¹³ In	2004MB03	NUCLEAR MOMENTS ^{113,115} In, ^{153,155} Eu, ^{185,187} Re, ^{203,205} Tl, ^{209,211} Fr; measured hfs; deduced hyperfine magnetic anomaly, relative radii. Laser resonance fluorescence. JOUR BRSPE 68 157
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A=113 (continued)

- ¹¹³Sn 2005BA18 NUCLEAR REACTIONS ¹¹²Sn(d, p), (d, 3np), (p, 2np), ¹¹⁸Sn(d, 2n), (d, 3n), (d, 5n), (d, 2np), (d, 6np), (d, 9np), (p, n), (p, 3n), (p, 4n), (p, np), (p, 5np), (p, 8np), ¹²⁰Sn(d, 2n), (d, 4n), (d, 6n), (d, 7n), (d, 4np), (d, 8np), (d, 11np), (p, n), (p, 3n), (p, 5n), (p, 6n), (p, 3np), (p, 7np), (p, 10np), ¹²⁴Sn(d, 2n), (d, 4n), (d, 6n), (d, 8n), (d, 10n), (d, 11n), (d, 2np), (d, 8np), (d, 12np), (d, 15np), (p, n), (p, 3n), (p, 5n), (p, 7n), (p, 9n), (p, 10n), (p, np), (p, 7np), (p, 11np), (p, 14np), E=3.65 GeV / nucleon; measured σ . ¹²⁰Sn(p, X), E=0.66 GeV; measured spallation fragments mass distribution. Activation technique, comparison with model predictions. JOUR YAFIA 68 195

A=114

- ¹¹⁴Sn 2004KU30 NUCLEAR REACTIONS ^{112,114,120,124}Sn(α , α'), (α , α'), E \approx 50 MeV; measured $\sigma(E, \theta)$; deduced optical model parameters. ^{112,114,120,124}Sn deduced transition strengths, deformation parameters, related features. JOUR UKPJA 49 841

A=115

- ¹¹⁵In 2004MB03 NUCLEAR MOMENTS ^{113,115}In, ^{153,155}Eu, ^{185,187}Re, ^{203,205}Tl, ^{209,211}Fr; measured hfs; deduced hyperfine magnetic anomaly, relative radii. Laser resonance fluorescence. JOUR BRSPE 68 157
- 2005CA03 RADIOACTIVITY ¹¹⁵In(β^-); measured β -delayed E γ , I γ ; deduced branching ratio and Q β for decay to excited level, limit on charge-nonconserving decay. ¹¹⁵Sn level deduced energy, β -feeding intensity. JOUR NUPAB 748 333
- ¹¹⁵Sn 2005CA03 RADIOACTIVITY ¹¹⁵In(β^-); measured β -delayed E γ , I γ ; deduced branching ratio and Q β for decay to excited level, limit on charge-nonconserving decay. ¹¹⁵Sn level deduced energy, β -feeding intensity. JOUR NUPAB 748 333
- ¹¹⁵Sb 2005BA18 NUCLEAR REACTIONS ¹¹²Sn(d, p), (d, 3np), (p, 2np), ¹¹⁸Sn(d, 2n), (d, 3n), (d, 5n), (d, 2np), (d, 6np), (d, 9np), (p, n), (p, 3n), (p, 4n), (p, np), (p, 5np), (p, 8np), ¹²⁰Sn(d, 2n), (d, 4n), (d, 6n), (d, 7n), (d, 4np), (d, 8np), (d, 11np), (p, n), (p, 3n), (p, 5n), (p, 6n), (p, 3np), (p, 7np), (p, 10np), ¹²⁴Sn(d, 2n), (d, 4n), (d, 6n), (d, 8n), (d, 10n), (d, 11n), (d, 2np), (d, 8np), (d, 12np), (d, 15np), (p, n), (p, 3n), (p, 5n), (p, 7n), (p, 9n), (p, 10n), (p, np), (p, 7np), (p, 11np), (p, 14np), E=3.65 GeV / nucleon; measured σ . ¹²⁰Sn(p, X), E=0.66 GeV; measured spallation fragments mass distribution. Activation technique, comparison with model predictions. JOUR YAFIA 68 195

A=116

- ¹¹⁶Cd 2005DA03 RADIOACTIVITY ¹¹⁶Cd($2\beta^-$); measured $2\nu 2\beta$ -decay T_{1/2}, $0\nu 2\beta$ -decay T_{1/2} lower limit. JOUR NPBSE 138 230

A=116 (*continued*)

	2005SA07	RADIOACTIVITY ^{82}Se , ^{96}Zr , ^{100}Mo , ^{116}Cd , $^{150}\text{Nd}(2\beta^-)$; measured $2\nu\beta\beta$ -decay $T_{1/2}$. ^{82}Se , $^{100}\text{Mo}(2\beta^-)$; measured $0\nu\beta\beta$ -decay $T_{1/2}$ lower limits; deduced neutrino mass limits. JOUR NPBSE 143 221
^{116}Sn	2004K064	NUCLEAR REACTIONS ^6Li , ^{16}O , ^{32}S , $^{50,51}\text{V}$, $^{70,72}\text{Ge}(\text{d}, \text{d})$, (d, d') , $\text{E}=171$ MeV; ^{90}Zr , $^{116}\text{Sn}(\text{d}, \text{d})$, (d, d') , $\text{E}=183$ MeV; measured $\sigma(\theta)$; deduced optical model parameters. JOUR PRVCA 70 067601
	2005DA03	RADIOACTIVITY $^{116}\text{Cd}(2\beta^-)$; measured $2\nu2\beta$ -decay $T_{1/2}$, $0\nu2\beta$ -decay $T_{1/2}$ lower limit. JOUR NPBSE 138 230
	2005SA07	RADIOACTIVITY ^{82}Se , ^{96}Zr , ^{100}Mo , ^{116}Cd , $^{150}\text{Nd}(2\beta^-)$; measured $2\nu\beta\beta$ -decay $T_{1/2}$. ^{82}Se , $^{100}\text{Mo}(2\beta^-)$; measured $0\nu\beta\beta$ -decay $T_{1/2}$ lower limits; deduced neutrino mass limits. JOUR NPBSE 143 221
^{116}Sb	2005BA18	NUCLEAR REACTIONS $^{112}\text{Sn}(\text{d}, \text{p})$, $(\text{d}, 3\text{np})$, $(\text{p}, 2\text{np})$, $^{118}\text{Sn}(\text{d}, 2\text{n})$, $(\text{d}, 3\text{n})$, $(\text{d}, 5\text{n})$, $(\text{d}, 2\text{np})$, $(\text{d}, 6\text{np})$, $(\text{d}, 9\text{np})$, (p, n) , $(\text{p}, 3\text{n})$, $(\text{p}, 4\text{n})$, (p, np) , $(\text{p}, 5\text{np})$, $(\text{p}, 8\text{np})$, $^{120}\text{Sn}(\text{d}, 2\text{n})$, $(\text{d}, 4\text{n})$, $(\text{d}, 6\text{n})$, $(\text{d}, 7\text{n})$, $(\text{d}, 4\text{np})$, $(\text{d}, 8\text{np})$, $(\text{d}, 11\text{np})$, (p, n) , $(\text{p}, 3\text{n})$, $(\text{p}, 5\text{n})$, $(\text{p}, 6\text{n})$, $(\text{p}, 3\text{np})$, $(\text{p}, 7\text{np})$, $(\text{p}, 10\text{np})$, $^{124}\text{Sn}(\text{d}, 2\text{n})$, $(\text{d}, 4\text{n})$, $(\text{d}, 6\text{n})$, $(\text{d}, 8\text{n})$, $(\text{d}, 10\text{n})$, $(\text{d}, 11\text{n})$, $(\text{d}, 2\text{np})$, $(\text{d}, 8\text{np})$, $(\text{d}, 12\text{np})$, $(\text{d}, 15\text{np})$, (p, n) , $(\text{p}, 3\text{n})$, $(\text{p}, 5\text{n})$, $(\text{p}, 7\text{n})$, $(\text{p}, 9\text{n})$, $(\text{p}, 10\text{n})$, (p, np) , $(\text{p}, 7\text{np})$, $(\text{p}, 11\text{np})$, $(\text{p}, 14\text{np})$, $\text{E}=3.65$ GeV / nucleon; measured σ . $^{120}\text{Sn}(\text{p}, \text{X})$, $\text{E}=0.66$ GeV; measured spallation fragments mass distribution. Activation technique, comparison with model predictions. JOUR YAFIA 68 195
^{116}Xe	2005JA06	RADIOACTIVITY $^{117}\text{Ba}(\beta^+\text{p})$ [from $^{63}\text{Cu}(^{58}\text{Ni}, 3\text{np})$]; measured $\text{E}\gamma$, $\text{E}\beta$, $\beta\gamma$ -coin, β -delayed proton spectra; deduced Q . ^{117}Cs deduced β -feeding intensities, proton decay branching ratios, resonance structure. Total absorption spectrometer, comparison with model predictions. JOUR ZAANE 23 401

A=117

^{117}Sn	2005BA18	NUCLEAR REACTIONS $^{112}\text{Sn}(\text{d}, \text{p})$, $(\text{d}, 3\text{np})$, $(\text{p}, 2\text{np})$, $^{118}\text{Sn}(\text{d}, 2\text{n})$, $(\text{d}, 3\text{n})$, $(\text{d}, 5\text{n})$, $(\text{d}, 2\text{np})$, $(\text{d}, 6\text{np})$, $(\text{d}, 9\text{np})$, (p, n) , $(\text{p}, 3\text{n})$, $(\text{p}, 4\text{n})$, (p, np) , $(\text{p}, 5\text{np})$, $(\text{p}, 8\text{np})$, $^{120}\text{Sn}(\text{d}, 2\text{n})$, $(\text{d}, 4\text{n})$, $(\text{d}, 6\text{n})$, $(\text{d}, 7\text{n})$, $(\text{d}, 4\text{np})$, $(\text{d}, 8\text{np})$, $(\text{d}, 11\text{np})$, (p, n) , $(\text{p}, 3\text{n})$, $(\text{p}, 5\text{n})$, $(\text{p}, 6\text{n})$, $(\text{p}, 3\text{np})$, $(\text{p}, 7\text{np})$, $(\text{p}, 10\text{np})$, $^{124}\text{Sn}(\text{d}, 2\text{n})$, $(\text{d}, 4\text{n})$, $(\text{d}, 6\text{n})$, $(\text{d}, 8\text{n})$, $(\text{d}, 10\text{n})$, $(\text{d}, 11\text{n})$, $(\text{d}, 2\text{np})$, $(\text{d}, 8\text{np})$, $(\text{d}, 12\text{np})$, $(\text{d}, 15\text{np})$, (p, n) , $(\text{p}, 3\text{n})$, $(\text{p}, 5\text{n})$, $(\text{p}, 7\text{n})$, $(\text{p}, 9\text{n})$, $(\text{p}, 10\text{n})$, (p, np) , $(\text{p}, 7\text{np})$, $(\text{p}, 11\text{np})$, $(\text{p}, 14\text{np})$, $\text{E}=3.65$ GeV / nucleon; measured σ . $^{120}\text{Sn}(\text{p}, \text{X})$, $\text{E}=0.66$ GeV; measured spallation fragments mass distribution. Activation technique, comparison with model predictions. JOUR YAFIA 68 195
	2005HE08	NUCLEAR REACTIONS $^{100}\text{Mo}(^{17}\text{O}, \text{xnp})$, $\text{E}=78.8$ MeV; $^{100}\text{Mo}(^{18}\text{O}, \text{xnp})$, $\text{E}=95.0$ MeV; measured $\text{E}\gamma$, $\text{I}\gamma$, (evaporation residue) γ -coin. $^{117,118}\text{Sn}$ deduced GDR widths, temperature and spin dependence features. Comparison with model predictions. JOUR NUPAB 750 175

A=117 (*continued*)

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| ^{117}Sb | 2005BA18 | NUCLEAR REACTIONS $^{112}\text{Sn}(\text{d}, \text{p}), (\text{d}, 3\text{np}), (\text{p}, 2\text{np}), ^{118}\text{Sn}(\text{d}, 2\text{n}), (\text{d}, 3\text{n}), (\text{d}, 5\text{n}), (\text{d}, 2\text{np}), (\text{d}, 6\text{np}), (\text{d}, 9\text{np}), (\text{p}, \text{n}), (\text{p}, 3\text{n}), (\text{p}, 4\text{n}), (\text{p}, \text{np}), (\text{p}, 5\text{np}), (\text{p}, 8\text{np}), ^{120}\text{Sn}(\text{d}, 2\text{n}), (\text{d}, 4\text{n}), (\text{d}, 6\text{n}), (\text{d}, 7\text{n}), (\text{d}, 4\text{np}), (\text{d}, 8\text{np}), (\text{d}, 11\text{np}), (\text{p}, \text{n}), (\text{p}, 3\text{n}), (\text{p}, 5\text{n}), (\text{p}, 6\text{n}), (\text{p}, 3\text{np}), (\text{p}, 7\text{np}), (\text{p}, 10\text{np}), ^{124}\text{Sn}(\text{d}, 2\text{n}), (\text{d}, 4\text{n}), (\text{d}, 6\text{n}), (\text{d}, 8\text{n}), (\text{d}, 10\text{n}), (\text{d}, 11\text{n}), (\text{d}, 2\text{np}), (\text{d}, 8\text{np}), (\text{d}, 12\text{np}), (\text{d}, 15\text{np}), (\text{p}, \text{n}), (\text{p}, 3\text{n}), (\text{p}, 5\text{n}), (\text{p}, 7\text{n}), (\text{p}, 9\text{n}), (\text{p}, 10\text{n}), (\text{p}, \text{np}), (\text{p}, 7\text{np}), (\text{p}, 11\text{np}), (\text{p}, 14\text{np}), \text{E}=3.65 \text{ GeV} / \text{nucleon}; measured \sigma. ^{120}\text{Sn}(\text{p}, \text{X}), \text{E}=0.66 \text{ GeV}; measured spallation fragments mass distribution. Activation technique, comparison with model predictions. JOUR YAFIA 68 195$ |
| ^{117}Cs | 2005JA06 | RADIOACTIVITY $^{117}\text{Ba}(\beta^+\text{p})$ [from $^{63}\text{Cu}(^{58}\text{Ni}, 3\text{np})$]; measured $\text{E}\gamma$, $\text{E}\beta$, $\beta\gamma$ -coin, β -delayed proton spectra; deduced Q. ^{117}Cs deduced β -feeding intensities, proton decay branching ratios, resonance structure. Total absorption spectrometer, comparison with model predictions. JOUR ZAANE 23 401 |
| ^{117}Ba | 2005JA06 | RADIOACTIVITY $^{117}\text{Ba}(\beta^+\text{p})$ [from $^{63}\text{Cu}(^{58}\text{Ni}, 3\text{np})$]; measured $\text{E}\gamma$, $\text{E}\beta$, $\beta\gamma$ -coin, β -delayed proton spectra; deduced Q. ^{117}Cs deduced β -feeding intensities, proton decay branching ratios, resonance structure. Total absorption spectrometer, comparison with model predictions. JOUR ZAANE 23 401 |

A=118

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| ^{118}Sn | 2005HE08 | NUCLEAR REACTIONS $^{100}\text{Mo}(^{17}\text{O}, \text{xnp}), \text{E}=78.8 \text{ MeV}$; $^{100}\text{Mo}(^{18}\text{O}, \text{xnp}), \text{E}=95.0 \text{ MeV}$; measured $\text{E}\gamma$, $\text{I}\gamma$, (evaporation residue) γ -coin. $^{117,118}\text{Sn}$ deduced GDR widths, temperature and spin dependence features. Comparison with model predictions. JOUR NUPAB 750 175 |
| ^{118}Sb | 2005BA18 | NUCLEAR REACTIONS $^{112}\text{Sn}(\text{d}, \text{p}), (\text{d}, 3\text{np}), (\text{p}, 2\text{np}), ^{118}\text{Sn}(\text{d}, 2\text{n}), (\text{d}, 3\text{n}), (\text{d}, 5\text{n}), (\text{d}, 2\text{np}), (\text{d}, 6\text{np}), (\text{d}, 9\text{np}), (\text{p}, \text{n}), (\text{p}, 3\text{n}), (\text{p}, 4\text{n}), (\text{p}, \text{np}), (\text{p}, 5\text{np}), (\text{p}, 8\text{np}), ^{120}\text{Sn}(\text{d}, 2\text{n}), (\text{d}, 4\text{n}), (\text{d}, 6\text{n}), (\text{d}, 7\text{n}), (\text{d}, 4\text{np}), (\text{d}, 8\text{np}), (\text{d}, 11\text{np}), (\text{p}, \text{n}), (\text{p}, 3\text{n}), (\text{p}, 5\text{n}), (\text{p}, 6\text{n}), (\text{p}, 3\text{np}), (\text{p}, 7\text{np}), (\text{p}, 10\text{np}), ^{124}\text{Sn}(\text{d}, 2\text{n}), (\text{d}, 4\text{n}), (\text{d}, 6\text{n}), (\text{d}, 8\text{n}), (\text{d}, 10\text{n}), (\text{d}, 11\text{n}), (\text{d}, 2\text{np}), (\text{d}, 8\text{np}), (\text{d}, 12\text{np}), (\text{d}, 15\text{np}), (\text{p}, \text{n}), (\text{p}, 3\text{n}), (\text{p}, 5\text{n}), (\text{p}, 7\text{n}), (\text{p}, 9\text{n}), (\text{p}, 10\text{n}), (\text{p}, \text{np}), (\text{p}, 7\text{np}), (\text{p}, 11\text{np}), (\text{p}, 14\text{np}), \text{E}=3.65 \text{ GeV} / \text{nucleon}; measured \sigma. ^{120}\text{Sn}(\text{p}, \text{X}), \text{E}=0.66 \text{ GeV}; measured spallation fragments mass distribution. Activation technique, comparison with model predictions. JOUR YAFIA 68 195$ |

A=119

No references found

A=120

^{120}Sn	2004KU30	NUCLEAR REACTIONS $^{112,114,120,124}\text{Sn}(\alpha, \alpha)$, (α, α') , $E \approx 50$ MeV; measured $\sigma(E, \theta)$; deduced optical model parameters. $^{112,114,120,124}\text{Sn}$ deduced transition strengths, deformation parameters, related features. JOUR UKPJA 49 841
	2005ZU01	RADIOACTIVITY $^{120}\text{Te}(\beta^+\text{EC})$; ^{64}Zn , $^{106,108}\text{Cd}$, $^{120}\text{Te}(2\text{EC})$; measured $T_{1/2}$ lower limits. JOUR NPBSE 138 236
^{120}Sb	2005BA18	NUCLEAR REACTIONS $^{112}\text{Sn}(\text{d}, \text{p})$, $(\text{d}, 3\text{np})$, $(\text{p}, 2\text{np})$, $^{118}\text{Sn}(\text{d}, 2\text{n})$, $(\text{d}, 3\text{n})$, $(\text{d}, 5\text{n})$, $(\text{d}, 2\text{np})$, $(\text{d}, 6\text{np})$, $(\text{d}, 9\text{np})$, (p, n) , $(\text{p}, 3\text{n})$, $(\text{p}, 4\text{n})$, (p, np) , $(\text{p}, 5\text{np})$, $(\text{p}, 8\text{np})$, $^{120}\text{Sn}(\text{d}, 2\text{n})$, $(\text{d}, 4\text{n})$, $(\text{d}, 6\text{n})$, $(\text{d}, 7\text{n})$, $(\text{d}, 4\text{np})$, $(\text{d}, 8\text{np})$, $(\text{d}, 11\text{np})$, (p, n) , $(\text{p}, 3\text{n})$, $(\text{p}, 5\text{n})$, $(\text{p}, 6\text{n})$, $(\text{p}, 3\text{np})$, $(\text{p}, 7\text{np})$, $(\text{p}, 10\text{np})$, $^{124}\text{Sn}(\text{d}, 2\text{n})$, $(\text{d}, 4\text{n})$, $(\text{d}, 6\text{n})$, $(\text{d}, 8\text{n})$, $(\text{d}, 10\text{n})$, $(\text{d}, 11\text{n})$, $(\text{d}, 2\text{np})$, $(\text{d}, 8\text{np})$, $(\text{d}, 12\text{np})$, $(\text{d}, 15\text{np})$, (p, n) , $(\text{p}, 3\text{n})$, $(\text{p}, 5\text{n})$, $(\text{p}, 7\text{n})$, $(\text{p}, 9\text{n})$, $(\text{p}, 10\text{n})$, (p, np) , $(\text{p}, 7\text{np})$, $(\text{p}, 11\text{np})$, $(\text{p}, 14\text{np})$, $E=3.65$ GeV / nucleon; measured σ . $^{120}\text{Sn}(\text{p}, \text{X})$, $E=0.66$ GeV; measured spallation fragments mass distribution. Activation technique, comparison with model predictions. JOUR YAFIA 68 195
^{120}Te	2005ZU01	RADIOACTIVITY $^{120}\text{Te}(\beta^+\text{EC})$; ^{64}Zn , $^{106,108}\text{Cd}$, $^{120}\text{Te}(2\text{EC})$; measured $T_{1/2}$ lower limits. JOUR NPBSE 138 236

A=121

^{121}Sb	2005P003	NUCLEAR REACTIONS $^{238}\text{U}(^{12}\text{C}, \text{X})$, $E=90$ MeV; $^{208}\text{Pb}(^{18}\text{O}, \text{X})$, $E=85$ MeV; $^{176}\text{Yb}(^{31}\text{P}, \text{X})$, $E=152$ MeV; measured prompt and delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. $^{121,123,125,127}\text{Sb}$ deduced high-spin levels, J , π , configurations. $^{123,125,127}\text{Sb}$ deduced isomeric states energies, $T_{1/2}$. Euroball III and IV arrays. JOUR ZAANE 24 39
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A=122

^{122}Sb	2005BA18	NUCLEAR REACTIONS $^{112}\text{Sn}(\text{d}, \text{p})$, $(\text{d}, 3\text{np})$, $(\text{p}, 2\text{np})$, $^{118}\text{Sn}(\text{d}, 2\text{n})$, $(\text{d}, 3\text{n})$, $(\text{d}, 5\text{n})$, $(\text{d}, 2\text{np})$, $(\text{d}, 6\text{np})$, $(\text{d}, 9\text{np})$, (p, n) , $(\text{p}, 3\text{n})$, $(\text{p}, 4\text{n})$, (p, np) , $(\text{p}, 5\text{np})$, $(\text{p}, 8\text{np})$, $^{120}\text{Sn}(\text{d}, 2\text{n})$, $(\text{d}, 4\text{n})$, $(\text{d}, 6\text{n})$, $(\text{d}, 7\text{n})$, $(\text{d}, 4\text{np})$, $(\text{d}, 8\text{np})$, $(\text{d}, 11\text{np})$, (p, n) , $(\text{p}, 3\text{n})$, $(\text{p}, 5\text{n})$, $(\text{p}, 6\text{n})$, $(\text{p}, 3\text{np})$, $(\text{p}, 7\text{np})$, $(\text{p}, 10\text{np})$, $^{124}\text{Sn}(\text{d}, 2\text{n})$, $(\text{d}, 4\text{n})$, $(\text{d}, 6\text{n})$, $(\text{d}, 8\text{n})$, $(\text{d}, 10\text{n})$, $(\text{d}, 11\text{n})$, $(\text{d}, 2\text{np})$, $(\text{d}, 8\text{np})$, $(\text{d}, 12\text{np})$, $(\text{d}, 15\text{np})$, (p, n) , $(\text{p}, 3\text{n})$, $(\text{p}, 5\text{n})$, $(\text{p}, 7\text{n})$, $(\text{p}, 9\text{n})$, $(\text{p}, 10\text{n})$, (p, np) , $(\text{p}, 7\text{np})$, $(\text{p}, 11\text{np})$, $(\text{p}, 14\text{np})$, $E=3.65$ GeV / nucleon; measured σ . $^{120}\text{Sn}(\text{p}, \text{X})$, $E=0.66$ GeV; measured spallation fragments mass distribution. Activation technique, comparison with model predictions. JOUR YAFIA 68 195
^{122}Te	2005HIZZ	NUCLEAR REACTIONS $^{122}\text{Te}(\text{n}, \text{n}')$, $E=1.72, 2.80, 3.35$ MeV; measured Doppler-shifted $E\gamma$, $I\gamma$, DSA. ^{122}Te deduced levels, J , π , $T_{1/2}$, $B(E1)$, $B(M1)$, $B(E2)$. PC S F Hicks, 1/3/2005
^{122}Cs	2005UU01	NUCLEAR REACTIONS $^{107}\text{Ag}(^{19}\text{F}, 3\text{np})$, $E=85$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{122}Cs deduced high-spin levels, J , π , configurations, $B(M1)$ / $B(E2)$, chiral doublet bands. Level systematics in neighboring isotopes compared. JOUR JPGPE 31 B1

A=123

- ^{123}Sn 2005BA18 NUCLEAR REACTIONS $^{112}\text{Sn}(\text{d}, \text{p}), (\text{d}, 3\text{np}), (\text{p}, 2\text{np}), ^{118}\text{Sn}(\text{d}, 2\text{n}), (\text{d}, 3\text{n}), (\text{d}, 5\text{n}), (\text{d}, 2\text{np}), (\text{d}, 6\text{np}), (\text{d}, 9\text{np}), (\text{p}, \text{n}), (\text{p}, 3\text{n}), (\text{p}, 4\text{n}), (\text{p}, \text{np}), (\text{p}, 5\text{np}), (\text{p}, 8\text{np}), ^{120}\text{Sn}(\text{d}, 2\text{n}), (\text{d}, 4\text{n}), (\text{d}, 6\text{n}), (\text{d}, 7\text{n}), (\text{d}, 4\text{np}), (\text{d}, 8\text{np}), (\text{d}, 11\text{np}), (\text{p}, \text{n}), (\text{p}, 3\text{n}), (\text{p}, 5\text{n}), (\text{p}, 6\text{n}), (\text{p}, 3\text{np}), (\text{p}, 7\text{np}), (\text{p}, 10\text{np}), ^{124}\text{Sn}(\text{d}, 2\text{n}), (\text{d}, 4\text{n}), (\text{d}, 6\text{n}), (\text{d}, 8\text{n}), (\text{d}, 10\text{n}), (\text{d}, 11\text{n}), (\text{d}, 2\text{np}), (\text{d}, 8\text{np}), (\text{d}, 12\text{np}), (\text{d}, 15\text{np}), (\text{p}, \text{n}), (\text{p}, 3\text{n}), (\text{p}, 5\text{n}), (\text{p}, 7\text{n}), (\text{p}, 9\text{n}), (\text{p}, 10\text{n}), (\text{p}, \text{np}), (\text{p}, 7\text{np}), (\text{p}, 11\text{np}), (\text{p}, 14\text{np}), \text{E}=3.65 \text{ GeV} / \text{nucleon}; measured σ . $^{120}\text{Sn}(\text{p}, \text{X}), \text{E}=0.66 \text{ GeV}$; measured spallation fragments mass distribution. Activation technique, comparison with model predictions. JOUR YAFIA 68 195$
- ^{123}Sb 2005P003 NUCLEAR REACTIONS $^{238}\text{U}(^{12}\text{C}, \text{X}), \text{E}=90 \text{ MeV}$; $^{208}\text{Pb}(^{18}\text{O}, \text{X}), \text{E}=85 \text{ MeV}$; $^{176}\text{Yb}(^{31}\text{P}, \text{X}), \text{E}=152 \text{ MeV}$; measured prompt and delayed $\text{E}\gamma, \text{I}\gamma, \gamma\gamma$ -coin. $^{121,123,125,127}\text{Sb}$ deduced high-spin levels, J, π , configurations. $^{123,125,127}\text{Sb}$ deduced isomeric states energies, $\text{T}_{1/2}$. Euroball III and IV arrays. JOUR ZAANE 24 39

A=124

- ^{124}Sn 2004KU30 NUCLEAR REACTIONS $^{112,114,120,124}\text{Sn}(\alpha, \alpha'), (\alpha, \alpha'), \text{E} \approx 50 \text{ MeV}$; measured $\sigma(\text{E}, \theta)$; deduced optical model parameters. $^{112,114,120,124}\text{Sn}$ deduced transition strengths, deformation parameters, related features. JOUR UKPJA 49 841
- 2005BA02 NUCLEAR REACTIONS $^{124}\text{Sn}(\text{n}, \text{n}'\gamma), \text{E}=2.2\text{-}4.5 \text{ MeV}$; measured $\text{E}\gamma, \text{I}\gamma, \gamma\gamma$ -coin, excitation functions, angular distributions, DSA. ^{124}Sn deduced levels, $\text{J}, \pi, \text{T}_{1/2}$, two- and three-phonon excitations. JOUR NUPAB 747 206
- ^{124}Sb 2005BA18 NUCLEAR REACTIONS $^{112}\text{Sn}(\text{d}, \text{p}), (\text{d}, 3\text{np}), (\text{p}, 2\text{np}), ^{118}\text{Sn}(\text{d}, 2\text{n}), (\text{d}, 3\text{n}), (\text{d}, 5\text{n}), (\text{d}, 2\text{np}), (\text{d}, 6\text{np}), (\text{d}, 9\text{np}), (\text{p}, \text{n}), (\text{p}, 3\text{n}), (\text{p}, 4\text{n}), (\text{p}, \text{np}), (\text{p}, 5\text{np}), (\text{p}, 8\text{np}), ^{120}\text{Sn}(\text{d}, 2\text{n}), (\text{d}, 4\text{n}), (\text{d}, 6\text{n}), (\text{d}, 7\text{n}), (\text{d}, 4\text{np}), (\text{d}, 8\text{np}), (\text{d}, 11\text{np}), (\text{p}, \text{n}), (\text{p}, 3\text{n}), (\text{p}, 5\text{n}), (\text{p}, 6\text{n}), (\text{p}, 3\text{np}), (\text{p}, 7\text{np}), (\text{p}, 10\text{np}), ^{124}\text{Sn}(\text{d}, 2\text{n}), (\text{d}, 4\text{n}), (\text{d}, 6\text{n}), (\text{d}, 8\text{n}), (\text{d}, 10\text{n}), (\text{d}, 11\text{n}), (\text{d}, 2\text{np}), (\text{d}, 8\text{np}), (\text{d}, 12\text{np}), (\text{d}, 15\text{np}), (\text{p}, \text{n}), (\text{p}, 3\text{n}), (\text{p}, 5\text{n}), (\text{p}, 7\text{n}), (\text{p}, 9\text{n}), (\text{p}, 10\text{n}), (\text{p}, \text{np}), (\text{p}, 7\text{np}), (\text{p}, 11\text{np}), (\text{p}, 14\text{np}), \text{E}=3.65 \text{ GeV} / \text{nucleon}; measured σ . $^{120}\text{Sn}(\text{p}, \text{X}), \text{E}=0.66 \text{ GeV}$; measured spallation fragments mass distribution. Activation technique, comparison with model predictions. JOUR YAFIA 68 195$
- ^{124}I 2004SCZU NUCLEAR REACTIONS $^{76}\text{Se}(\text{p}, \text{n}), \text{E} \approx 5\text{-}40 \text{ MeV}$; $^{78}\text{Kr}(\text{d}, \alpha), \text{E} \approx 4\text{-}14 \text{ MeV}$; measured σ . $^{126}\text{Te}(\text{p}, 3\text{n}), \text{E}=8\text{-}70 \text{ MeV}$; $^{85}\text{Rb}(\text{p}, 4\text{n}), \text{E}=44\text{-}66 \text{ MeV}$; measured yields. REPT
- ^{124}Xe 2005LE04 NUCLEAR REACTIONS $\text{Pb}(\text{p}, \text{X})^3\text{He} / ^4\text{He} / ^{21}\text{Ne} / ^{22}\text{Ne} / ^{36}\text{Ar} / ^{38}\text{Ar} / ^{78}\text{Kr} / ^{80}\text{Kr} / ^{81}\text{Kr} / ^{82}\text{Kr} / ^{83}\text{Kr} / ^{84}\text{Kr} / ^{85}\text{Kr} / ^{86}\text{Kr} / ^{124}\text{Xe} / ^{126}\text{Xe} / ^{128}\text{Xe} / ^{129}\text{Xe} / ^{130}\text{Xe} / ^{131}\text{Xe} / ^{132}\text{Xe} / ^{134}\text{Xe}, \text{E}=44\text{-}2595 \text{ MeV}$; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1

A=125

- ^{125}Sn 2004J019 NUCLEAR REACTIONS $^2\text{H}(^{124}\text{Sn}, \text{p})$, E=562 MeV; measured E_{p} , $\sigma(\theta)$. ^{125}Sn deduced levels, spectroscopic factors. DWBA analysis. Comparison with previous results. JOUR PRVCA 70 067602
- ^{125}Sb 2005P003 NUCLEAR REACTIONS $^{238}\text{U}(^{12}\text{C}, \text{X})$, E=90 MeV; $^{208}\text{Pb}(^{18}\text{O}, \text{X})$, E=85 MeV; $^{176}\text{Yb}(^{31}\text{P}, \text{X})$, E=152 MeV; measured prompt and delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. $^{121,123,125,127}\text{Sb}$ deduced high-spin levels, J, π , configurations. $^{123,125,127}\text{Sb}$ deduced isomeric states energies, $T_{1/2}$. Euroball III and IV arrays. JOUR ZAANE 24 39

A=126

- ^{126}Sn 2005CA14 RADIOACTIVITY $^{126}\text{Sn}(\beta^-)$; measured $T_{1/2}$. ^{126}Sb deduced transitions. Radiochemical separation. JOUR JRNCD 263 599
- ^{126}Sb 2005CA14 RADIOACTIVITY $^{126}\text{Sn}(\beta^-)$; measured $T_{1/2}$. ^{126}Sb deduced transitions. Radiochemical separation. JOUR JRNCD 263 599
- ^{126}Xe 2005LE04 NUCLEAR REACTIONS $\text{Pb}(\text{p}, \text{X})^3\text{He}$ / ^4He / ^{21}Ne / ^{22}Ne / ^{36}Ar / ^{38}Ar / ^{78}Kr / ^{80}Kr / ^{81}Kr / ^{82}Kr / ^{83}Kr / ^{84}Kr / ^{85}Kr / ^{86}Kr / ^{124}Xe / ^{126}Xe / ^{128}Xe / ^{129}Xe / ^{130}Xe / ^{131}Xe / ^{132}Xe / ^{134}Xe , E=44-2595 MeV; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1

A=127

- ^{127}Sb 2005P003 NUCLEAR REACTIONS $^{238}\text{U}(^{12}\text{C}, \text{X})$, E=90 MeV; $^{208}\text{Pb}(^{18}\text{O}, \text{X})$, E=85 MeV; $^{176}\text{Yb}(^{31}\text{P}, \text{X})$, E=152 MeV; measured prompt and delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. $^{121,123,125,127}\text{Sb}$ deduced high-spin levels, J, π , configurations. $^{123,125,127}\text{Sb}$ deduced isomeric states energies, $T_{1/2}$. Euroball III and IV arrays. JOUR ZAANE 24 39
- ^{127}I 2005BE03 RADIOACTIVITY ^{23}Na , ^{127}I ; measured $T_{1/2}$ lower limits for spontaneous decay to superdense state; deduced potential barrier features. NaI detectors. JOUR ZAANE 23 7
- 2005BE17 RADIOACTIVITY $^{127}\text{I}(^{24}\text{Ne})$, (^{28}Mg) , (^{30}Mg) , (^{32}Si) , (^{34}Si) , (^{48}Ca) , (^{49}Sc) ; measured cluster decay $T_{1/2}$ lower limits. JOUR ZAANE 24 51
- ^{127}La 2005II01 RADIOACTIVITY $^{127}\text{Ce}(\beta^+)$, (EC) [from $\text{Mo}(^{35}\text{Cl}, \text{xnp})$]; measured $E\gamma$, $I\gamma$, $E(\text{ce})$, $I(\text{ce})$, $\beta\gamma$ -, $\gamma\gamma$ -coin, $T_{1/2}$. ^{127}La deduced levels, J, π , $T_{1/2}$, configurations. Comparison with Nilsson model predictions. JOUR ZAANE 23 33
- ^{127}Ce 2005II01 RADIOACTIVITY $^{127}\text{Ce}(\beta^+)$, (EC) [from $\text{Mo}(^{35}\text{Cl}, \text{xnp})$]; measured $E\gamma$, $I\gamma$, $E(\text{ce})$, $I(\text{ce})$, $\beta\gamma$ -, $\gamma\gamma$ -coin, $T_{1/2}$. ^{127}La deduced levels, J, π , $T_{1/2}$, configurations. Comparison with Nilsson model predictions. JOUR ZAANE 23 33

A=128

- ¹²⁸Sb 2005NA05 NUCLEAR REACTIONS ²³²Th, ^{232,238}U, ^{238,240}Pu, ²⁴⁴Cm(n, F)¹²⁸Sb / ¹³⁰Sb / ¹³²Sb / ¹³¹Te / ¹³³Te / ¹³²I / ¹³⁴I / ¹³⁶I / ¹³⁵Xe / ¹³⁸Cs, E=thermal, fast; measured isomer yield ratios; deduced fission fragment angular momenta. Spin-dependent statistical model analysis. JOUR PRVCA 71 014304
- ¹²⁸Xe 2005LE04 NUCLEAR REACTIONS Pb(p, X)³He / ⁴He / ²¹Ne / ²²Ne / ³⁶Ar / ³⁸Ar / ⁷⁸Kr / ⁸⁰Kr / ⁸¹Kr / ⁸²Kr / ⁸³Kr / ⁸⁴Kr / ⁸⁵Kr / ⁸⁶Kr / ¹²⁴Xe / ¹²⁶Xe / ¹²⁸Xe / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³⁴Xe, E=44-2595 MeV; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1

A=129

- ¹²⁹Xe 2005LE04 NUCLEAR REACTIONS Pb(p, X)³He / ⁴He / ²¹Ne / ²²Ne / ³⁶Ar / ³⁸Ar / ⁷⁸Kr / ⁸⁰Kr / ⁸¹Kr / ⁸²Kr / ⁸³Kr / ⁸⁴Kr / ⁸⁵Kr / ⁸⁶Kr / ¹²⁴Xe / ¹²⁶Xe / ¹²⁸Xe / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³⁴Xe, E=44-2595 MeV; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1

A=130

- ¹³⁰Sb 2005NA05 NUCLEAR REACTIONS ²³²Th, ^{232,238}U, ^{238,240}Pu, ²⁴⁴Cm(n, F)¹²⁸Sb / ¹³⁰Sb / ¹³²Sb / ¹³¹Te / ¹³³Te / ¹³²I / ¹³⁴I / ¹³⁶I / ¹³⁵Xe / ¹³⁸Cs, E=thermal, fast; measured isomer yield ratios; deduced fission fragment angular momenta. Spin-dependent statistical model analysis. JOUR PRVCA 71 014304
- ¹³⁰Te 2005PI02 RADIOACTIVITY ¹³⁰Te($2\beta^-$); measured $0\nu 2\beta$ -decay $T_{1/2}$ lower limit. JOUR NPBSE 138 210
- ¹³⁰Xe 2005LE04 NUCLEAR REACTIONS Pb(p, X)³He / ⁴He / ²¹Ne / ²²Ne / ³⁶Ar / ³⁸Ar / ⁷⁸Kr / ⁸⁰Kr / ⁸¹Kr / ⁸²Kr / ⁸³Kr / ⁸⁴Kr / ⁸⁵Kr / ⁸⁶Kr / ¹²⁴Xe / ¹²⁶Xe / ¹²⁸Xe / ¹²⁹Xe / ¹³⁰Xe / ¹³¹Xe / ¹³²Xe / ¹³⁴Xe, E=44-2595 MeV; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1
- 2005PI02 RADIOACTIVITY ¹³⁰Te($2\beta^-$); measured $0\nu 2\beta$ -decay $T_{1/2}$ lower limit. JOUR NPBSE 138 210

A=131

- ¹³¹Te 2005NA05 NUCLEAR REACTIONS ²³²Th, ^{232,238}U, ^{238,240}Pu, ²⁴⁴Cm(n, F)¹²⁸Sb / ¹³⁰Sb / ¹³²Sb / ¹³¹Te / ¹³³Te / ¹³²I / ¹³⁴I / ¹³⁶I / ¹³⁵Xe / ¹³⁸Cs, E=thermal, fast; measured isomer yield ratios; deduced fission fragment angular momenta. Spin-dependent statistical model analysis. JOUR PRVCA 71 014304

A=131 (continued)

- ^{131}Xe 2005LE04 NUCLEAR REACTIONS $\text{Pb}(p, X)^3\text{He} / ^4\text{He} / ^{21}\text{Ne} / ^{22}\text{Ne} / ^{36}\text{Ar} / ^{38}\text{Ar} / ^{78}\text{Kr} / ^{80}\text{Kr} / ^{81}\text{Kr} / ^{82}\text{Kr} / ^{83}\text{Kr} / ^{84}\text{Kr} / ^{85}\text{Kr} / ^{86}\text{Kr} / ^{124}\text{Xe} / ^{126}\text{Xe} / ^{128}\text{Xe} / ^{129}\text{Xe} / ^{130}\text{Xe} / ^{131}\text{Xe} / ^{132}\text{Xe} / ^{134}\text{Xe}$, E=44-2595 MeV; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1
- ^{131}Cs 2005KU10 NUCLEAR REACTIONS $^{124}\text{Sn}(^{11}\text{B}, 4n)$, E=57 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{131}Cs deduced high-spin levels, J, π , configurations B(M1) / B(E2). Total Routhian surface and tilted axis cranking model calculations. JOUR ZAANE 24 13

A=132

- ^{132}Sb 2005NA05 NUCLEAR REACTIONS ^{232}Th , $^{232,238}\text{U}$, $^{238,240}\text{Pu}$, $^{244}\text{Cm}(n, F)^{128}\text{Sb} / ^{130}\text{Sb} / ^{132}\text{Sb} / ^{131}\text{Te} / ^{133}\text{Te} / ^{132}\text{I} / ^{134}\text{I} / ^{136}\text{I} / ^{135}\text{Xe} / ^{138}\text{Cs}$, E=thermal, fast; measured isomer yield ratios; deduced fission fragment angular momenta. Spin-dependent statistical model analysis. JOUR PRVCA 71 014304
- ^{132}I 2005NA05 NUCLEAR REACTIONS ^{232}Th , $^{232,238}\text{U}$, $^{238,240}\text{Pu}$, $^{244}\text{Cm}(n, F)^{128}\text{Sb} / ^{130}\text{Sb} / ^{132}\text{Sb} / ^{131}\text{Te} / ^{133}\text{Te} / ^{132}\text{I} / ^{134}\text{I} / ^{136}\text{I} / ^{135}\text{Xe} / ^{138}\text{Cs}$, E=thermal, fast; measured isomer yield ratios; deduced fission fragment angular momenta. Spin-dependent statistical model analysis. JOUR PRVCA 71 014304
- ^{132}Xe 2005LE04 NUCLEAR REACTIONS $\text{Pb}(p, X)^3\text{He} / ^4\text{He} / ^{21}\text{Ne} / ^{22}\text{Ne} / ^{36}\text{Ar} / ^{38}\text{Ar} / ^{78}\text{Kr} / ^{80}\text{Kr} / ^{81}\text{Kr} / ^{82}\text{Kr} / ^{83}\text{Kr} / ^{84}\text{Kr} / ^{85}\text{Kr} / ^{86}\text{Kr} / ^{124}\text{Xe} / ^{126}\text{Xe} / ^{128}\text{Xe} / ^{129}\text{Xe} / ^{130}\text{Xe} / ^{131}\text{Xe} / ^{132}\text{Xe} / ^{134}\text{Xe}$, E=44-2595 MeV; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1

A=133

- ^{133}Te 2005NA05 NUCLEAR REACTIONS ^{232}Th , $^{232,238}\text{U}$, $^{238,240}\text{Pu}$, $^{244}\text{Cm}(n, F)^{128}\text{Sb} / ^{130}\text{Sb} / ^{132}\text{Sb} / ^{131}\text{Te} / ^{133}\text{Te} / ^{132}\text{I} / ^{134}\text{I} / ^{136}\text{I} / ^{135}\text{Xe} / ^{138}\text{Cs}$, E=thermal, fast; measured isomer yield ratios; deduced fission fragment angular momenta. Spin-dependent statistical model analysis. JOUR PRVCA 71 014304

A=134

- ^{134}I 2005NA05 NUCLEAR REACTIONS ^{232}Th , $^{232,238}\text{U}$, $^{238,240}\text{Pu}$, $^{244}\text{Cm}(n, F)^{128}\text{Sb} / ^{130}\text{Sb} / ^{132}\text{Sb} / ^{131}\text{Te} / ^{133}\text{Te} / ^{132}\text{I} / ^{134}\text{I} / ^{136}\text{I} / ^{135}\text{Xe} / ^{138}\text{Cs}$, E=thermal, fast; measured isomer yield ratios; deduced fission fragment angular momenta. Spin-dependent statistical model analysis. JOUR PRVCA 71 014304

A=134 (continued)

^{134}Xe 2005LE04 NUCLEAR REACTIONS $\text{Pb}(p, X)^3\text{He} / ^4\text{He} / ^{21}\text{Ne} / ^{22}\text{Ne} / ^{36}\text{Ar} / ^{38}\text{Ar} / ^{78}\text{Kr} / ^{80}\text{Kr} / ^{81}\text{Kr} / ^{82}\text{Kr} / ^{83}\text{Kr} / ^{84}\text{Kr} / ^{85}\text{Kr} / ^{86}\text{Kr} / ^{124}\text{Xe} / ^{126}\text{Xe} / ^{128}\text{Xe} / ^{129}\text{Xe} / ^{130}\text{Xe} / ^{131}\text{Xe} / ^{132}\text{Xe} / ^{134}\text{Xe}$, $E=44\text{--}2595$ MeV; measured production σ ; deduced reaction mechanism features. Mini-stack approach, comparisons with model predictions. JOUR NIMBE 229 1

A=135

^{135}Xe 2004GAZV NUCLEAR REACTIONS ^{237}Np , $^{243}\text{Am}(\gamma, F)^{89}\text{Kr} / ^{91}\text{Kr} / ^{92}\text{Kr} / ^{93}\text{Kr} / ^{135}\text{Xe} / ^{137}\text{Xe} / ^{138}\text{Xe} / ^{139}\text{Xe} / ^{140}\text{Xe} / ^{141}\text{Xe} / ^{142}\text{Xe}$, $E_{\text{max}}=25$ MeV; measured $E\gamma$, $I\gamma$; deduced fission fragment yields. REPT JINR-P15-2004-119,Gangrsky

2005NA05 NUCLEAR REACTIONS ^{232}Th , $^{232,238}\text{U}$, $^{238,240}\text{Pu}$, $^{244}\text{Cm}(n, F)^{128}\text{Sb} / ^{130}\text{Sb} / ^{132}\text{Sb} / ^{131}\text{Te} / ^{133}\text{Te} / ^{132}\text{I} / ^{134}\text{I} / ^{136}\text{I} / ^{135}\text{Xe} / ^{138}\text{Cs}$, $E=\text{thermal, fast}$; measured isomer yield ratios; deduced fission fragment angular momenta. Spin-dependent statistical model analysis. JOUR PRVCA 71 014304

A=136

^{136}I 2005NA05 NUCLEAR REACTIONS ^{232}Th , $^{232,238}\text{U}$, $^{238,240}\text{Pu}$, $^{244}\text{Cm}(n, F)^{128}\text{Sb} / ^{130}\text{Sb} / ^{132}\text{Sb} / ^{131}\text{Te} / ^{133}\text{Te} / ^{132}\text{I} / ^{134}\text{I} / ^{136}\text{I} / ^{135}\text{Xe} / ^{138}\text{Cs}$, $E=\text{thermal, fast}$; measured isomer yield ratios; deduced fission fragment angular momenta. Spin-dependent statistical model analysis. JOUR PRVCA 71 014304

^{136}La 2005BH06 NUCLEAR REACTIONS $^{130}\text{Te}(^{11}\text{B}, 5n)$, $E=52$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{136}La deduced high-spin levels, J , π , configurations. Two-quasiparticle-rotor model calculation. JOUR NUPAB 750 199

A=137

^{137}Xe 2004GAZV NUCLEAR REACTIONS ^{237}Np , $^{243}\text{Am}(\gamma, F)^{89}\text{Kr} / ^{91}\text{Kr} / ^{92}\text{Kr} / ^{93}\text{Kr} / ^{135}\text{Xe} / ^{137}\text{Xe} / ^{138}\text{Xe} / ^{139}\text{Xe} / ^{140}\text{Xe} / ^{141}\text{Xe} / ^{142}\text{Xe}$, $E_{\text{max}}=25$ MeV; measured $E\gamma$, $I\gamma$; deduced fission fragment yields. REPT JINR-P15-2004-119,Gangrsky

A=138

^{138}Xe 2004GAZV NUCLEAR REACTIONS ^{237}Np , $^{243}\text{Am}(\gamma, F)^{89}\text{Kr} / ^{91}\text{Kr} / ^{92}\text{Kr} / ^{93}\text{Kr} / ^{135}\text{Xe} / ^{137}\text{Xe} / ^{138}\text{Xe} / ^{139}\text{Xe} / ^{140}\text{Xe} / ^{141}\text{Xe} / ^{142}\text{Xe}$, $E_{\text{max}}=25$ MeV; measured $E\gamma$, $I\gamma$; deduced fission fragment yields. REPT JINR-P15-2004-119,Gangrsky

A=138 (continued)

^{138}Cs 2005NA05 NUCLEAR REACTIONS ^{232}Th , $^{232,238}\text{U}$, $^{238,240}\text{Pu}$, $^{244}\text{Cm}(\text{n}, \text{F})^{128}\text{Sb}$ / ^{130}Sb / ^{132}Sb / ^{131}Te / ^{133}Te / ^{132}I / ^{134}I / ^{136}I / ^{135}Xe / ^{138}Cs ,
E=thermal, fast; measured isomer yield ratios; deduced fission
fragment angular momenta. Spin-dependent statistical model analysis.
JOUR PRVCA 71 014304

A=139

^{139}Xe 2004GAZV NUCLEAR REACTIONS ^{237}Np , $^{243}\text{Am}(\gamma, \text{F})^{89}\text{Kr}$ / ^{91}Kr / ^{92}Kr /
 ^{93}Kr / ^{135}Xe / ^{137}Xe / ^{138}Xe / ^{139}Xe / ^{140}Xe / ^{141}Xe / ^{142}Xe ,
 $E_{\text{max}}=25$ MeV; measured $E\gamma$, $I\gamma$; deduced fission fragment yields.
REPT JINR-P15-2004-119,Gangrsky

^{139}Cs 2005AN01 NUCLEAR REACTIONS $^{238}\text{U}(\text{p}, \text{F})^{89}\text{Rb}$ / ^{90}Rb / ^{91}Rb / ^{93}Rb /
 ^{94}Rb / ^{95}Rb / ^{139}Cs / ^{140}Cs / ^{141}Cs / ^{142}Cs / ^{144}Cs / ^{145}Cs , $E=1$
GeV; measured yields. JOUR ZAANE 23 257

^{139}Ba 2005HE04 NUCLEAR REACTIONS $^{18}\text{O}(\text{p}, \text{n})$, $E=2582$ keV; measured neutron
spectrum. $^{138}\text{Ba}(\text{n}, \gamma)$, $E=\text{spectrum}$; measured Maxwellian-averaged σ .
JOUR PRVCA 71 025803

A=140

^{140}Xe 2004GAZV NUCLEAR REACTIONS ^{237}Np , $^{243}\text{Am}(\gamma, \text{F})^{89}\text{Kr}$ / ^{91}Kr / ^{92}Kr /
 ^{93}Kr / ^{135}Xe / ^{137}Xe / ^{138}Xe / ^{139}Xe / ^{140}Xe / ^{141}Xe / ^{142}Xe ,
 $E_{\text{max}}=25$ MeV; measured $E\gamma$, $I\gamma$; deduced fission fragment yields.
REPT JINR-P15-2004-119,Gangrsky

^{140}Cs 2005AN01 NUCLEAR REACTIONS $^{238}\text{U}(\text{p}, \text{F})^{89}\text{Rb}$ / ^{90}Rb / ^{91}Rb / ^{93}Rb /
 ^{94}Rb / ^{95}Rb / ^{139}Cs / ^{140}Cs / ^{141}Cs / ^{142}Cs / ^{144}Cs / ^{145}Cs , $E=1$
GeV; measured yields. JOUR ZAANE 23 257

^{140}Nd 2004HIZZ NUCLEAR REACTIONS $^{102}\text{Ru}(\text{}^3\text{He}, 2\text{n})$, $^{100}\text{Ru}(\alpha, \text{n})$, $^{103}\text{Rh}(\text{d}, 2\text{n})$,
(p, n), $E \approx 5\text{-}35$ MeV; analyzed excitation functions, yields. $\text{Ce}(\text{}^3\text{He},$
 $\text{xn})^{140}\text{Nd}$, $E < 27$ MeV; $^{141}\text{Pr}(\text{p}, 2\text{n})$, $E < 23$ MeV; measured yields.
 $^{192}\text{Os}(\text{p}, \text{n})$, $E \approx 6\text{-}20$; measured σ . REPT

NEA/NSC/DOC(2004)14,P15,Hilgers

2004NE13 NUCLEAR REACTIONS $^{96}\text{Zr}(\text{}^{48}\text{Ca}, 4\text{n})$, $E=195$ MeV; measured $E\gamma$,
 $I\gamma$, $\gamma\gamma$ -coin, fractional Doppler shifts. ^{140}Nd deduced superdeformed
band transitions, quadrupole moments, configurations. Euroball array.
JOUR PRVCA 70 064315

A=141

^{141}Xe 2004GAZV NUCLEAR REACTIONS ^{237}Np , $^{243}\text{Am}(\gamma, \text{F})^{89}\text{Kr}$ / ^{91}Kr / ^{92}Kr /
 ^{93}Kr / ^{135}Xe / ^{137}Xe / ^{138}Xe / ^{139}Xe / ^{140}Xe / ^{141}Xe / ^{142}Xe ,
 $E_{\text{max}}=25$ MeV; measured $E\gamma$, $I\gamma$; deduced fission fragment yields.
REPT JINR-P15-2004-119,Gangrsky

A=141 (continued)

^{141}Cs 2005AN01 NUCLEAR REACTIONS $^{238}\text{U}(\text{p}, \text{F})^{89}\text{Rb} / ^{90}\text{Rb} / ^{91}\text{Rb} / ^{93}\text{Rb} / ^{94}\text{Rb} / ^{95}\text{Rb} / ^{139}\text{Cs} / ^{140}\text{Cs} / ^{141}\text{Cs} / ^{142}\text{Cs} / ^{144}\text{Cs} / ^{145}\text{Cs}$, E=1 GeV; measured yields. JOUR ZAANE 23 257

A=142

^{142}Xe 2004GAZV NUCLEAR REACTIONS ^{237}Np , $^{243}\text{Am}(\gamma, \text{F})^{89}\text{Kr} / ^{91}\text{Kr} / ^{92}\text{Kr} / ^{93}\text{Kr} / ^{135}\text{Xe} / ^{137}\text{Xe} / ^{138}\text{Xe} / ^{139}\text{Xe} / ^{140}\text{Xe} / ^{141}\text{Xe} / ^{142}\text{Xe}$, $E_{\text{max}}=25$ MeV; measured $E\gamma$, $I\gamma$; deduced fission fragment yields. REPT JINR-P15-2004-119, Gangrsky

^{142}Cs 2005AN01 NUCLEAR REACTIONS $^{238}\text{U}(\text{p}, \text{F})^{89}\text{Rb} / ^{90}\text{Rb} / ^{91}\text{Rb} / ^{93}\text{Rb} / ^{94}\text{Rb} / ^{95}\text{Rb} / ^{139}\text{Cs} / ^{140}\text{Cs} / ^{141}\text{Cs} / ^{142}\text{Cs} / ^{144}\text{Cs} / ^{145}\text{Cs}$, E=1 GeV; measured yields. JOUR ZAANE 23 257

^{142}Ba 2005BI02 RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured Doppler-shifted $E\gamma$, $I\gamma$, (particle) γ -, $\gamma\gamma$ -coin. $^{142,144}\text{Ba}$ levels deduced $T_{1/2}$, transition quadrupole moments. Euroball, Saphir arrays, differential Doppler shift method. JOUR PRVCA 71 011301

^{142}Nd 2005MA10 NUCLEAR MOMENTS $^{142,143,144,145,146,148,150}\text{Nd}$; measured hfs, isotope shifts. JOUR CHPHD 14 511

^{142}Gd 2005PA07 NUCLEAR REACTIONS $^{114}\text{Sn}(^{32}\text{S}, 2\text{n}2\text{p})$, E=160 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, (charged particle) γ -coin, DSA. ^{142}Gd deduced high-spin levels, J, π , configurations, $T_{1/2}$, B(M1), B(E2). Euroball IV and Euclides arrays, comparisons with model predictions. JOUR ZAANE 23 191

A=143

^{143}Nd 2003KI26 RADIOACTIVITY $^{147}\text{Sm}(\alpha)$; measured $E\alpha$, $T_{1/2}$. Comparison with previous results. JOUR JNRS 4, No 1, 5

 2004WAZV NUCLEAR REACTIONS $\text{Mg}(^{132}\text{Xe}, \text{xn})^{149}\text{Dy}$, E=7 MeV / nucleon; $^{12}\text{C}(^{136}\text{Xe}, 5\text{n})$, E=6.5 MeV / nucleon; measured $E\gamma$, $I\gamma(\theta, \text{H}, \text{t})$. ^{149}Dy , ^{143}Nd deduced high-spin isomers g-factors. Time-differential perturbed angular distribution method. REPT CNS-REP-64, P243, Watanabe

 2005MA10 NUCLEAR MOMENTS $^{142,143,144,145,146,148,150}\text{Nd}$; measured hfs, isotope shifts. JOUR CHPHD 14 511

A=144

^{144}Cs 2005AN01 NUCLEAR REACTIONS $^{238}\text{U}(\text{p}, \text{F})^{89}\text{Rb} / ^{90}\text{Rb} / ^{91}\text{Rb} / ^{93}\text{Rb} / ^{94}\text{Rb} / ^{95}\text{Rb} / ^{139}\text{Cs} / ^{140}\text{Cs} / ^{141}\text{Cs} / ^{142}\text{Cs} / ^{144}\text{Cs} / ^{145}\text{Cs}$, E=1 GeV; measured yields. JOUR ZAANE 23 257

^{144}Ba 2005BI02 RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured Doppler-shifted $E\gamma$, $I\gamma$, (particle) γ -, $\gamma\gamma$ -coin. $^{142,144}\text{Ba}$ levels deduced $T_{1/2}$, transition quadrupole moments. Euroball, Saphir arrays, differential Doppler shift method. JOUR PRVCA 71 011301

A=144 (*continued*)

¹⁴⁴ Nd	2005MA10	NUCLEAR MOMENTS ^{142,143,144,145,146,148,150} Nd; measured hfs, isotope shifts. JOUR CHPHD 14 511
¹⁴⁴ Er	2004SEZW	RADIOACTIVITY ^{145,147} Tm(p); measured Ep. REPT ANL-04/22,P27,Seweryniak

A=145

¹⁴⁵ Cs	2005AN01	NUCLEAR REACTIONS ²³⁸ U(p, F) ⁸⁹ Rb / ⁹⁰ Rb / ⁹¹ Rb / ⁹³ Rb / ⁹⁴ Rb / ⁹⁵ Rb / ¹³⁹ Cs / ¹⁴⁰ Cs / ¹⁴¹ Cs / ¹⁴² Cs / ¹⁴⁴ Cs / ¹⁴⁵ Cs, E=1 GeV; measured yields. JOUR ZAANE 23 257
¹⁴⁵ Nd	2005MA10	NUCLEAR MOMENTS ^{142,143,144,145,146,148,150} Nd; measured hfs, isotope shifts. JOUR CHPHD 14 511
¹⁴⁵ Er	2004DAZX	RADIOACTIVITY ¹⁴⁶ Tm(p); measured Ep. REPT ANL-04/22,P29,Davids
¹⁴⁵ Tm	2004SEZW	RADIOACTIVITY ^{145,147} Tm(p); measured Ep. REPT ANL-04/22,P27,Seweryniak

A=146

¹⁴⁶ Nd	2005MA10	NUCLEAR MOMENTS ^{142,143,144,145,146,148,150} Nd; measured hfs, isotope shifts. JOUR CHPHD 14 511
¹⁴⁶ Er	2004SEZW	RADIOACTIVITY ^{145,147} Tm(p); measured Ep. REPT ANL-04/22,P27,Seweryniak
¹⁴⁶ Tm	2004DAZX	RADIOACTIVITY ¹⁴⁶ Tm(p); measured Ep. REPT ANL-04/22,P29,Davids

A=147

¹⁴⁷ Cs	2005SY01	RADIOACTIVITY ¹⁴⁷ Cs(β^-) [from ²³⁵ U(n, F)]; measured β -delayed E γ , I γ , $\gamma\gamma$ -, (X-ray) γ -coin, T _{1/2} . ¹⁴⁷ Ba deduced levels, J, π , T _{1/2} , B(M1), B(E2). JOUR ZAANE 23 481
¹⁴⁷ Ba	2005SY01	RADIOACTIVITY ¹⁴⁷ Cs(β^-) [from ²³⁵ U(n, F)]; measured β -delayed E γ , I γ , $\gamma\gamma$ -, (X-ray) γ -coin, T _{1/2} . ¹⁴⁷ Ba deduced levels, J, π , T _{1/2} , B(M1), B(E2). JOUR ZAANE 23 481
¹⁴⁷ Sm	2003KI26	RADIOACTIVITY ¹⁴⁷ Sm(α); measured E α , T _{1/2} . Comparison with previous results. JOUR JNRS 4, No 1,5
¹⁴⁷ Tm	2004SEZW	RADIOACTIVITY ^{145,147} Tm(p); measured Ep. REPT ANL-04/22,P27,Seweryniak

A=148

¹⁴⁸ Nd	2005MA10	NUCLEAR MOMENTS ^{142,143,144,145,146,148,150} Nd; measured hfs, isotope shifts. JOUR CHPHD 14 511
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A=148 (*continued*)

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| ^{148}Tb | 2004AL35 | RADIOACTIVITY $^{148}\text{Dy}(\text{EC})$, (β^+) [from $^{93}\text{Nb}(^{58}\text{Ni}, 3\text{p})$]; measured $\text{E}\gamma$, $\text{I}\gamma$, (X-ray) γ^- , $\beta\gamma$ -coin; deduced log ft. ^{148}Tb levels deduced β -feeding intensities, Gamow-Teller strength distribution, resonant state features. Total absorption spectrometer, comparison with previous results. JOUR PRVCA 70 064301 |
| ^{148}Dy | 2004AL35 | RADIOACTIVITY $^{148}\text{Dy}(\text{EC})$, (β^+) [from $^{93}\text{Nb}(^{58}\text{Ni}, 3\text{p})$]; measured $\text{E}\gamma$, $\text{I}\gamma$, (X-ray) γ^- , $\beta\gamma$ -coin; deduced log ft. ^{148}Tb levels deduced β -feeding intensities, Gamow-Teller strength distribution, resonant state features. Total absorption spectrometer, comparison with previous results. JOUR PRVCA 70 064301 |

A=149

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| ^{149}Dy | 2004WAZW | NUCLEAR REACTIONS $\text{Mg}(^{132}\text{Xe}, \text{xn})^{149}\text{Dy}$, $\text{E}=7$ MeV / nucleon; $^{12}\text{C}(^{136}\text{Xe}, 5\text{n})$, $\text{E}=6.5$ MeV / nucleon; measured $\text{E}\gamma$, $\text{I}\gamma(\theta, \text{H}, \text{t})$. ^{149}Dy , ^{143}Nd deduced high-spin isomers g-factors. Time-differential perturbed angular distribution method. REPT
CNS-REP-64,P243,Watanabe |
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A=150

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|-------------------|----------|---|
| ^{150}Nd | 2005MA10 | NUCLEAR MOMENTS $^{142,143,144,145,146,148,150}\text{Nd}$; measured hfs, isotope shifts. JOUR CHPHD 14 511 |
| | 2005SA07 | RADIOACTIVITY ^{82}Se , ^{96}Zr , ^{100}Mo , ^{116}Cd , $^{150}\text{Nd}(2\beta^-)$; measured $2\nu\beta\beta$ -decay $\text{T}_{1/2}$. ^{82}Se , $^{100}\text{Mo}(2\beta^-)$; measured $0\nu\beta\beta$ -decay $\text{T}_{1/2}$ lower limits; deduced neutrino mass limits. JOUR NPBSE 143 221 |
| ^{150}Sm | 2005SA07 | RADIOACTIVITY ^{82}Se , ^{96}Zr , ^{100}Mo , ^{116}Cd , $^{150}\text{Nd}(2\beta^-)$; measured $2\nu\beta\beta$ -decay $\text{T}_{1/2}$. ^{82}Se , $^{100}\text{Mo}(2\beta^-)$; measured $0\nu\beta\beta$ -decay $\text{T}_{1/2}$ lower limits; deduced neutrino mass limits. JOUR NPBSE 143 221 |

A=151

No references found

A=152

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| ^{152}Dy | 2004LAZW | NUCLEAR REACTIONS $^{108}\text{Pd}(^{48}\text{Ca}, 4\text{n})$, $\text{E}=194$ MeV; measured $\text{E}\gamma$, $\text{I}\gamma$, $\gamma\gamma$ -coin. ^{152}Dy deduced ridge widths, quadrupole moments, rotational damping features for deformed and superdeformed quasicontinuum spectra. Gammasphere array. REPT
ANL-04/22,P51,Lauritsen |
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A=153

^{153}Eu	2004MB03	NUCLEAR MOMENTS $^{113,115}\text{In}$, $^{153,155}\text{Eu}$, $^{185,187}\text{Re}$, $^{203,205}\text{Tl}$, $^{209,211}\text{Fr}$; measured hfs; deduced hyperfine magnetic anomaly, relative radii. Laser resonance fluorescence. JOUR BRSPE 68 157
	2005BU02	NUCLEAR REACTIONS $^{154}\text{Gd}(t, \alpha)$, E=15 MeV; $^{152}\text{Sm}(^3\text{He}, d)$, E=24 MeV; $^{152}\text{Sm}(\alpha, t)$, E=25 MeV; measured particle spectra, $\sigma(E, \theta)$. ^{153}Eu deduced levels, l-values, spectroscopic strengths, configurations. Nilsson model with Coriolis mixing. JOUR NUPAB 747 131

A=154

No references found

A=155

^{155}Eu	2004MB03	NUCLEAR MOMENTS $^{113,115}\text{In}$, $^{153,155}\text{Eu}$, $^{185,187}\text{Re}$, $^{203,205}\text{Tl}$, $^{209,211}\text{Fr}$; measured hfs; deduced hyperfine magnetic anomaly, relative radii. Laser resonance fluorescence. JOUR BRSPE 68 157
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A=156

No references found

A=157

No references found

A=158

No references found

A=159

No references found

A=160

No references found

A=161

No references found

A=162

¹⁶²Dy 2004KI23 NUCLEAR REACTIONS ^{161,162,163,164}Dy(n, γ), E=550 keV; measured E γ , I γ , capture σ . JOUR KPSJA 45 1474

A=163

¹⁶³Dy 2004KI23 NUCLEAR REACTIONS ^{161,162,163,164}Dy(n, γ), E=550 keV; measured E γ , I γ , capture σ . JOUR KPSJA 45 1474

A=164

¹⁶⁴Dy 2004KI23 NUCLEAR REACTIONS ^{161,162,163,164}Dy(n, γ), E=550 keV; measured E γ , I γ , capture σ . JOUR KPSJA 45 1474
¹⁶⁴W 2004GOZZ RADIOACTIVITY ^{168,169,170,171,172}Os, ^{169,170,171,172,173,174,175}Ir, ^{170,171,172,173,174,175,176,177}Pt, ^{173,174,175,176,177}Au, ^{174,175,176,177,178}Hg(α) [from ^{92,94}Mo(⁸⁴Sr, xnyp) and subsequent decay]; measured E α , E γ , α - γ -coin, T_{1/2}. ¹⁶⁵Ta, ^{165,167}W, ^{165,166,167,168,171}Re, ^{169,170,171}Os, ^{169,170,171,172,175}Ir, ^{173,175}Pt, ^{174,176}Au deduced levels, J, π . THESIS J Goon, University of Tennessee

A=165

¹⁶⁵Dy 2004KI23 NUCLEAR REACTIONS ^{161,162,163,164}Dy(n, γ), E=550 keV; measured E γ , I γ , capture σ . JOUR KPSJA 45 1474
 2005BU07 NUCLEAR REACTIONS ¹⁶³Dy, ¹⁷⁷Hf(t, p), E=17 MeV; measured σ (Ep, θ). ¹⁶⁵Dy, ¹⁷⁹Hf deduced levels, L-values, L=0 strengths. Enriched targets, magnetic spectrograph. Systematic trends in neighboring nuclides discussed. JOUR NUPAB 750 185
¹⁶⁵Lu 2005AN04 NUCLEAR REACTIONS ¹³⁹La(³⁰Si, 4n), E=135 MeV; measured Doppler-shifted E γ , I γ , $\gamma\gamma$ -coin. ¹⁶⁵Lu levels deduced T_{1/2}, transition quadrupole moments, B(E2). GASP array, total Routhian surface calculations. JOUR PRVCA 71 014312
¹⁶⁵Ta 2004GOZZ RADIOACTIVITY ^{168,169,170,171,172}Os, ^{169,170,171,172,173,174,175}Ir, ^{170,171,172,173,174,175,176,177}Pt, ^{173,174,175,176,177}Au, ^{174,175,176,177,178}Hg(α) [from ^{92,94}Mo(⁸⁴Sr, xnyp) and subsequent decay]; measured E α , E γ , α - γ -coin, T_{1/2}. ¹⁶⁵Ta, ^{165,167}W, ^{165,166,167,168,171}Re, ^{169,170,171}Os, ^{169,170,171,172,175}Ir, ^{173,175}Pt, ^{174,176}Au deduced levels, J, π . THESIS J Goon, University of Tennessee

A=165 (continued)

¹⁶⁵ W	2004GOZZ	RADIOACTIVITY ^{168,169,170,171,172} Os, ^{169,170,171,172,173,174,175} Ir, ^{170,171,172,173,174,175,176,177} Pt, ^{173,174,175,176,177} Au, ^{174,175,176,177,178} Hg(α) [from ^{92,94} Mo(⁸⁴ Sr, xnyp) and subsequent decay]; measured E α , E γ , α - γ -coin, T _{1/2} . ¹⁶⁵ Ta, ^{165,167} W, ^{165,166,167,168,171} Re, ^{169,170,171} Os, ^{169,170,171,172,175} Ir, ^{173,175} Pt, ^{174,176} Au deduced levels, J, π . THESIS J Goon, University of Tennessee
¹⁶⁵ Re	2004GOZZ	RADIOACTIVITY ^{168,169,170,171,172} Os, ^{169,170,171,172,173,174,175} Ir, ^{170,171,172,173,174,175,176,177} Pt, ^{173,174,175,176,177} Au, ^{174,175,176,177,178} Hg(α) [from ^{92,94} Mo(⁸⁴ Sr, xnyp) and subsequent decay]; measured E α , E γ , α - γ -coin, T _{1/2} . ¹⁶⁵ Ta, ^{165,167} W, ^{165,166,167,168,171} Re, ^{169,170,171} Os, ^{169,170,171,172,175} Ir, ^{173,175} Pt, ^{174,176} Au deduced levels, J, π . THESIS J Goon, University of Tennessee

A=166

¹⁶⁶ Yb	2005ST03	NUCLEAR REACTIONS ¹²⁴ Sn(⁴⁸ Ca, 4n), (⁴⁸ Ca, 5n), (⁴⁸ Ca, 6n), E=215 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ^{166,167,168} Yb deduced transition energy correlations, level spacing and interaction potential features, order-to-chaos transition. Gammasphere array. JOUR PRLTA 94 042501
¹⁶⁶ Lu	2005MC01	RADIOACTIVITY ¹⁶⁶ Hf(β^+), (EC) [from ¹⁵⁹ Tb(¹⁶ O, 9n)]; measured E γ , I γ , $\gamma\gamma$ -coin. ¹⁶⁶ Hf deduced levels, J, π , X(5) symmetry features. JOUR PRVCA 71 024309
¹⁶⁶ Hf	2005MC01	RADIOACTIVITY ¹⁶⁶ Hf(β^+), (EC) [from ¹⁵⁹ Tb(¹⁶ O, 9n)]; measured E γ , I γ , $\gamma\gamma$ -coin. ¹⁶⁶ Hf deduced levels, J, π , X(5) symmetry features. JOUR PRVCA 71 024309
¹⁶⁶ W	2004GOZZ	RADIOACTIVITY ^{168,169,170,171,172} Os, ^{169,170,171,172,173,174,175} Ir, ^{170,171,172,173,174,175,176,177} Pt, ^{173,174,175,176,177} Au, ^{174,175,176,177,178} Hg(α) [from ^{92,94} Mo(⁸⁴ Sr, xnyp) and subsequent decay]; measured E α , E γ , α - γ -coin, T _{1/2} . ¹⁶⁵ Ta, ^{165,167} W, ^{165,166,167,168,171} Re, ^{169,170,171} Os, ^{169,170,171,172,175} Ir, ^{173,175} Pt, ^{174,176} Au deduced levels, J, π . THESIS J Goon, University of Tennessee
¹⁶⁶ Re	2004GOZZ	RADIOACTIVITY ^{168,169,170,171,172} Os, ^{169,170,171,172,173,174,175} Ir, ^{170,171,172,173,174,175,176,177} Pt, ^{173,174,175,176,177} Au, ^{174,175,176,177,178} Hg(α) [from ^{92,94} Mo(⁸⁴ Sr, xnyp) and subsequent decay]; measured E α , E γ , α - γ -coin, T _{1/2} . ¹⁶⁵ Ta, ^{165,167} W, ^{165,166,167,168,171} Re, ^{169,170,171} Os, ^{169,170,171,172,175} Ir, ^{173,175} Pt, ^{174,176} Au deduced levels, J, π . THESIS J Goon, University of Tennessee
¹⁶⁶ Os	2004GOZZ	RADIOACTIVITY ^{168,169,170,171,172} Os, ^{169,170,171,172,173,174,175} Ir, ^{170,171,172,173,174,175,176,177} Pt, ^{173,174,175,176,177} Au, ^{174,175,176,177,178} Hg(α) [from ^{92,94} Mo(⁸⁴ Sr, xnyp) and subsequent decay]; measured E α , E γ , α - γ -coin, T _{1/2} . ¹⁶⁵ Ta, ^{165,167} W, ^{165,166,167,168,171} Re, ^{169,170,171} Os, ^{169,170,171,172,175} Ir, ^{173,175} Pt, ^{174,176} Au deduced levels, J, π . THESIS J Goon, University of Tennessee

A=167

^{167}Yb	2005ST03	NUCLEAR REACTIONS $^{124}\text{Sn}(^{48}\text{Ca}, 4\text{n}), (^{48}\text{Ca}, 5\text{n}), (^{48}\text{Ca}, 6\text{n})$, E=215 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. $^{166,167,168}\text{Yb}$ deduced transition energy correlations, level spacing and interaction potential features, order-to-chaos transition. Gammasphere array. JOUR PRLTA 94 042501
^{167}Lu	2005AM02	NUCLEAR REACTIONS $^{123}\text{Sb}(^{48}\text{Ca}, 4\text{n})$, E=203 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{167}Lu deduced high-spin levels, J, π , triaxial superdeformed bands, configurations. Gammasphere array. JOUR PRVCA 71 011302
^{167}W	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{167}Re	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{167}Os	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee

A=168

^{168}Yb	2005ST03	NUCLEAR REACTIONS $^{124}\text{Sn}(^{48}\text{Ca}, 4\text{n}), (^{48}\text{Ca}, 5\text{n}), (^{48}\text{Ca}, 6\text{n})$, E=215 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. $^{166,167,168}\text{Yb}$ deduced transition energy correlations, level spacing and interaction potential features, order-to-chaos transition. Gammasphere array. JOUR PRLTA 94 042501
^{168}W	2002DU22	RADIOACTIVITY $^{197,197m,198,199m,200,201m}\text{Po}(\alpha)$; $^{172,173}\text{Os}(\alpha)$ [from $^{156}\text{Dy}(^{22}\text{Ne}, \text{xn})$]; $^{183,184,185}\text{Hg}(\alpha)$ [from $^{168}\text{Yb}(^{22}\text{Ne}, \text{xn})$]; measured $E\alpha$, $T_{1/2}$. JOUR NIMAE 479 631
	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee

A=168 (continued)

^{168}Re	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{168}Os	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee

A=169

^{169}Tm	2005BA10	NUCLEAR MOMENTS ^{169}Tm ; measured hfs. JOUR PHSTB 71 159
^{169}W	2002DU22	RADIOACTIVITY $^{197,197m,198,199m,200,201m}\text{Po}(\alpha)$; $^{172,173}\text{Os}(\alpha)$ [from $^{156}\text{Dy}(^{22}\text{Ne}, \text{xn})$]; $^{183,184,185}\text{Hg}(\alpha)$ [from $^{168}\text{Yb}(^{22}\text{Ne}, \text{xn})$]; measured $E\alpha$, $T_{1/2}$. JOUR NIMAE 479 631
^{169}Re	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{169}Os	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{169}Ir	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee

A=170

^{170}Re	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
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A=170 (continued)

	2004WA35	NUCLEAR REACTIONS $^{142}\text{Nd}(^{32}\text{S}, 3\text{np})$, $E=155, 166$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, (X-ray) γ -coin. ^{170}Re deduced high-spin levels, J, π , configurations. Level systematics in neighboring nuclides discussed. JOUR PRVCA 70 064306
^{170}Os	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{170}Ir	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{170}Pt	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee

A=171

^{171}Re	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{171}Os	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{171}Ir	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee

A=171 (continued)

- ¹⁷¹Pt 2004G0ZZ RADIOACTIVITY ^{168,169,170,171,172}Os, ^{169,170,171,172,173,174,175}Ir, ^{170,171,172,173,174,175,176,177}Pt, ^{173,174,175,176,177}Au, ^{174,175,176,177,178}Hg(α) [from ^{92,94}Mo(⁸⁴Sr, xnyp) and subsequent decay]; measured E α , E γ , α - γ -coin, T_{1/2}. ¹⁶⁵Ta, ^{165,167}W, ^{165,166,167,168,171}Re, ^{169,170,171}Os, ^{169,170,171,172,175}Ir, ^{173,175}Pt, ^{174,176}Au deduced levels, J, π . THESIS J Goon, University of Tennessee

A=172

- ¹⁷²Yb 2005SAZZ NUCLEAR REACTIONS ^{172,174}Yb(polarized γ , γ'), E=2930, 3005, 3550 keV; measured E γ , I γ , asymmetries. ^{172,174}Yb levels deduced π . Comparison with previous results. PREPRINT
nucl-ex/0501006, 1/11/2005
- ¹⁷²Os 2002DU22 RADIOACTIVITY ^{197,197m,198,199m,200,201m}Po(α); ^{172,173}Os(α) [from ¹⁵⁶Dy(²²Ne, xn)]; ^{183,184,185}Hg(α) [from ¹⁶⁸Yb(²²Ne, xn)]; measured E α , T_{1/2}. JOUR NIMAE 479 631
- 2002DU22 NUCLEAR REACTIONS ¹⁵⁶Dy(²²Ne, 5n), (²²Ne, 6n), E=127 MeV; ¹⁶²Er(¹⁸O, 6n), (¹⁸O, 7n), E=116 MeV; measured radiochemical yields. JOUR NIMAE 479 631
- 2004G0ZZ RADIOACTIVITY ^{168,169,170,171,172}Os, ^{169,170,171,172,173,174,175}Ir, ^{170,171,172,173,174,175,176,177}Pt, ^{173,174,175,176,177}Au, ^{174,175,176,177,178}Hg(α) [from ^{92,94}Mo(⁸⁴Sr, xnyp) and subsequent decay]; measured E α , E γ , α - γ -coin, T_{1/2}. ¹⁶⁵Ta, ^{165,167}W, ^{165,166,167,168,171}Re, ^{169,170,171}Os, ^{169,170,171,172,175}Ir, ^{173,175}Pt, ^{174,176}Au deduced levels, J, π . THESIS J Goon, University of Tennessee
- ¹⁷²Ir 2004G0ZZ RADIOACTIVITY ^{168,169,170,171,172}Os, ^{169,170,171,172,173,174,175}Ir, ^{170,171,172,173,174,175,176,177}Pt, ^{173,174,175,176,177}Au, ^{174,175,176,177,178}Hg(α) [from ^{92,94}Mo(⁸⁴Sr, xnyp) and subsequent decay]; measured E α , E γ , α - γ -coin, T_{1/2}. ¹⁶⁵Ta, ^{165,167}W, ^{165,166,167,168,171}Re, ^{169,170,171}Os, ^{169,170,171,172,175}Ir, ^{173,175}Pt, ^{174,176}Au deduced levels, J, π . THESIS J Goon, University of Tennessee
- ¹⁷²Pt 2004G0ZZ RADIOACTIVITY ^{168,169,170,171,172}Os, ^{169,170,171,172,173,174,175}Ir, ^{170,171,172,173,174,175,176,177}Pt, ^{173,174,175,176,177}Au, ^{174,175,176,177,178}Hg(α) [from ^{92,94}Mo(⁸⁴Sr, xnyp) and subsequent decay]; measured E α , E γ , α - γ -coin, T_{1/2}. ¹⁶⁵Ta, ^{165,167}W, ^{165,166,167,168,171}Re, ^{169,170,171}Os, ^{169,170,171,172,175}Ir, ^{173,175}Pt, ^{174,176}Au deduced levels, J, π . THESIS J Goon, University of Tennessee

A=173

- ¹⁷³Hf 2005HA05 NUCLEAR REACTIONS ¹³⁰Te(⁴⁸Ca, 4n), (⁴⁸Ca, 5n), E=200, 205 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, DSA. ¹⁷⁴Hf deduced superdeformed bands transitions, T_{1/2}, quadrupole moments. ¹⁷³Hf deduced superdeformed band transitions. Gammasphere array, comparisons with model predictions. JOUR PYLBB 608 31

A=173 (continued)

^{173}Os	2002DU22	RADIOACTIVITY $^{197,197m,198,199m,200,201m}\text{Po}(\alpha)$; $^{172,173}\text{Os}(\alpha)$ [from $^{156}\text{Dy}(^{22}\text{Ne}, \text{xn})$]; $^{183,184,185}\text{Hg}(\alpha)$ [from $^{168}\text{Yb}(^{22}\text{Ne}, \text{xn})$]; measured $E\alpha$, $T_{1/2}$. JOUR NIMAE 479 631
	2002DU22	NUCLEAR REACTIONS $^{156}\text{Dy}(^{22}\text{Ne}, 5n)$, $(^{22}\text{Ne}, 6n)$, $E=127$ MeV; $^{162}\text{Er}(^{18}\text{O}, 6n)$, $(^{18}\text{O}, 7n)$, $E=116$ MeV; measured radiochemical yields. JOUR NIMAE 479 631
	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{173}Ir	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{173}Pt	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{173}Au	2004GOZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee

A=174

^{174}Er	2005CA02	RADIOACTIVITY ^{188}Ta , ^{190}W , $^{192,193}\text{Re}$, ^{195}Os , $^{197,198}\text{Ir}$, $^{200,201,202}\text{Pt}$, $^{203}\text{Au}(\text{IT})$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $T_{1/2}$. ^{188}Ta , ^{190}W , $^{192,193}\text{Re}$, ^{195}Os , $^{197,198}\text{Ir}$, $^{200,201,202}\text{Pt}$, ^{203}Au deduced transitions. ^{190}W , $^{200,201,202}\text{Pt}$ deduced levels, J, π . $^{174,175}\text{Er}$, ^{185}Hf , $^{191,194}\text{Re}$, $^{199}\text{Ir}(\text{IT})$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$]; measured $E\gamma$, $I\gamma$. JOUR ZAANE 23 201
^{174}Yb	2005SAZZ	NUCLEAR REACTIONS $^{172,174}\text{Yb}(\text{polarized } \gamma, \gamma')$, $E=2930, 3005, 3550$ keV; measured $E\gamma$, $I\gamma$, asymmetries. $^{172,174}\text{Yb}$ levels deduced π . Comparison with previous results. PREPRINT nucl-ex/0501006, 1/11/2005
^{174}Hf	2005HA05	NUCLEAR REACTIONS $^{130}\text{Te}(^{48}\text{Ca}, 4n)$, $(^{48}\text{Ca}, 5n)$, $E=200, 205$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, DSA. ^{174}Hf deduced superdeformed bands transitions, $T_{1/2}$, quadrupole moments. ^{173}Hf deduced superdeformed band transitions. Gammasphere array, comparisons with model predictions. JOUR PYLBB 608 31

A=174 (continued)

	2005ME01	NUCLEAR REACTIONS Hf(n, X), E=0.1-100 eV; measured total neutron σ . ^{174,176,177,178,179,180} Hf deduced resonance parameters. Comparison with previous results. JOUR KPSJA 46 401
¹⁷⁴ Os	2002DU22	NUCLEAR REACTIONS ¹⁵⁶ Dy(²² Ne, 5n), (²² Ne, 6n), E=127 MeV; ¹⁶² Er(¹⁸ O, 6n), (¹⁸ O, 7n), E=116 MeV; measured radiochemical yields. JOUR NIMAE 479 631
¹⁷⁴ Ir	2004GOZZ	RADIOACTIVITY ^{168,169,170,171,172} Os, ^{169,170,171,172,173,174,175} Ir, ^{170,171,172,173,174,175,176,177} Pt, ^{173,174,175,176,177} Au, ^{174,175,176,177,178} Hg(α) [from ^{92,94} Mo(⁸⁴ Sr, xnyp) and subsequent decay]; measured E α , E γ , α - γ -coin, T _{1/2} . ¹⁶⁵ Ta, ^{165,167} W, ^{165,166,167,168,171} Re, ^{169,170,171} Os, ^{169,170,171,172,175} Ir, ^{173,175} Pt, ^{174,176} Au deduced levels, J, π . THESIS J Goon, University of Tennessee
¹⁷⁴ Pt	2004GOZZ	NUCLEAR REACTIONS ⁹² Mo(⁸⁴ Sr, 2p), E=380 MeV; ⁹⁴ Mo(⁸⁴ Sr, 2n2p), E=385 MeV; measured E γ , I γ , $\gamma\gamma$ -, (recoil) γ -coin. ¹⁷⁴ Pt deduced high-spin levels, J, π , configurations, shape coexistence features. Gammasphere, fragment separator, cranked mean-field calculations. THESIS J Goon, University of Tennessee
	2004GOZZ	RADIOACTIVITY ^{168,169,170,171,172} Os, ^{169,170,171,172,173,174,175} Ir, ^{170,171,172,173,174,175,176,177} Pt, ^{173,174,175,176,177} Au, ^{174,175,176,177,178} Hg(α) [from ^{92,94} Mo(⁸⁴ Sr, xnyp) and subsequent decay]; measured E α , E γ , α - γ -coin, T _{1/2} . ¹⁶⁵ Ta, ^{165,167} W, ^{165,166,167,168,171} Re, ^{169,170,171} Os, ^{169,170,171,172,175} Ir, ^{173,175} Pt, ^{174,176} Au deduced levels, J, π . THESIS J Goon, University of Tennessee
¹⁷⁴ Au	2004GOZZ	RADIOACTIVITY ^{168,169,170,171,172} Os, ^{169,170,171,172,173,174,175} Ir, ^{170,171,172,173,174,175,176,177} Pt, ^{173,174,175,176,177} Au, ^{174,175,176,177,178} Hg(α) [from ^{92,94} Mo(⁸⁴ Sr, xnyp) and subsequent decay]; measured E α , E γ , α - γ -coin, T _{1/2} . ¹⁶⁵ Ta, ^{165,167} W, ^{165,166,167,168,171} Re, ^{169,170,171} Os, ^{169,170,171,172,175} Ir, ^{173,175} Pt, ^{174,176} Au deduced levels, J, π . THESIS J Goon, University of Tennessee
¹⁷⁴ Hg	2004GOZZ	RADIOACTIVITY ^{168,169,170,171,172} Os, ^{169,170,171,172,173,174,175} Ir, ^{170,171,172,173,174,175,176,177} Pt, ^{173,174,175,176,177} Au, ^{174,175,176,177,178} Hg(α) [from ^{92,94} Mo(⁸⁴ Sr, xnyp) and subsequent decay]; measured E α , E γ , α - γ -coin, T _{1/2} . ¹⁶⁵ Ta, ^{165,167} W, ^{165,166,167,168,171} Re, ^{169,170,171} Os, ^{169,170,171,172,175} Ir, ^{173,175} Pt, ^{174,176} Au deduced levels, J, π . THESIS J Goon, University of Tennessee

A=175

¹⁷⁵ Er	2005CA02	RADIOACTIVITY ¹⁸⁸ Ta, ¹⁹⁰ W, ^{192,193} Re, ¹⁹⁵ Os, ^{197,198} Ir, ^{200,201,202} Pt, ²⁰³ Au(IT) [from Be(²⁰⁸ Pb, X)]; measured E γ , I γ , $\gamma\gamma$ -coin, T _{1/2} . ¹⁸⁸ Ta, ¹⁹⁰ W, ^{192,193} Re, ¹⁹⁵ Os, ^{197,198} Ir, ^{200,201,202} Pt, ²⁰³ Au deduced transitions. ¹⁹⁰ W, ^{200,201,202} Pt deduced levels, J, π . ^{174,175} Er, ¹⁸⁵ Hf, ^{191,194} Re, ¹⁹⁹ Ir(IT) [from Be(²⁰⁸ Pb, X)]; measured E γ , I γ . JOUR ZAANE 23 201
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A=175 (continued)

^{175}Ir	2004G0ZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
	2004RA28	RADIOACTIVITY ^{183}Tl , $^{179}\text{Au}(\alpha)$ [from $^{144}\text{Sm}(^{42}\text{Ca}, 2\text{np})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{179}Au , ^{175}Ir deduced levels, J, π . JOUR PRVCA 70 064308
^{175}Pt	2004G0ZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{175}Au	2004G0ZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{175}Hg	2004G0ZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee

A=176

^{176}Yb	2005AM04	RADIOACTIVITY $^{176}\text{Lu}(\beta^-)$, (β^+) ; measured isotope ratios; deduced decay branch upper limit. JOUR GCACA 69 465
^{176}Lu	2005AM04	RADIOACTIVITY $^{176}\text{Lu}(\beta^-)$, (β^+) ; measured isotope ratios; deduced decay branch upper limit. JOUR GCACA 69 465
^{176}Hf	2004C026	RADIOACTIVITY $^{180}\text{W}(\alpha)$; measured $E\alpha$, $T_{1/2}$, Q-value. $^{182,183,184,186}\text{W}(\alpha)$; measured $T_{1/2}$ lower limits. CaWO_4 crystals. JOUR PRVCA 70 064606
	2005AM04	RADIOACTIVITY $^{176}\text{Lu}(\beta^-)$, (β^+) ; measured isotope ratios; deduced decay branch upper limit. JOUR GCACA 69 465
	2005ME01	NUCLEAR REACTIONS $\text{Hf}(n, X)$, $E=0.1\text{-}100$ eV; measured total neutron σ . $^{174,176,177,178,179,180}\text{Hf}$ deduced resonance parameters. Comparison with previous results. JOUR KPSJA 46 401
^{176}Pt	2004G0ZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee

A=176 (continued)

^{176}Au	2004G0ZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{176}Hg	2004G0ZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee

A=177

^{177}Hf	2005ME01	NUCLEAR REACTIONS $\text{Hf}(n, X)$, $E=0.1-100$ eV; measured total neutron σ . $^{174,176,177,178,179,180}\text{Hf}$ deduced resonance parameters. Comparison with previous results. JOUR KPSJA 46 401
^{177}Pt	2004G0ZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{177}Au	2004G0ZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee
^{177}Hg	2004CAZW	RADIOACTIVITY $^{181}\text{Pb}(\alpha)$ [from $^{92}\text{Mo}(^{90}\text{Zr}, p)$]; measured $E\alpha$, $T_{1/2}$. ^{181}Pb deduced ground-state J, π . REPT ANL-04/22,P43,Carpenter
	2004G0ZZ	RADIOACTIVITY $^{168,169,170,171,172}\text{Os}$, $^{169,170,171,172,173,174,175}\text{Ir}$, $^{170,171,172,173,174,175,176,177}\text{Pt}$, $^{173,174,175,176,177}\text{Au}$, $^{174,175,176,177,178}\text{Hg}(\alpha)$ [from $^{92,94}\text{Mo}(^{84}\text{Sr}, \text{xnyp})$ and subsequent decay]; measured $E\alpha$, $E\gamma$, α - γ -coin, $T_{1/2}$. ^{165}Ta , $^{165,167}\text{W}$, $^{165,166,167,168,171}\text{Re}$, $^{169,170,171}\text{Os}$, $^{169,170,171,172,175}\text{Ir}$, $^{173,175}\text{Pt}$, $^{174,176}\text{Au}$ deduced levels, J, π . THESIS J Goon, University of Tennessee

A=178

^{178}Hf	2004C026	RADIOACTIVITY $^{180}\text{W}(\alpha)$; measured $E\alpha$, $T_{1/2}$, Q-value. $^{182,183,184,186}\text{W}(\alpha)$; measured $T_{1/2}$ lower limits. CaWO_4 crystals. JOUR PRVCA 70 064606
	2005ME01	NUCLEAR REACTIONS $\text{Hf}(n, X)$, $E=0.1-100$ eV; measured total neutron σ . $^{174,176,177,178,179,180}\text{Hf}$ deduced resonance parameters. Comparison with previous results. JOUR KPSJA 46 401

A=178 (*continued*)

¹⁷⁸Hg 2004G0ZZ RADIOACTIVITY ^{168,169,170,171,172}Os, ^{169,170,171,172,173,174,175}Ir, ^{170,171,172,173,174,175,176,177}Pt, ^{173,174,175,176,177}Au, ^{174,175,176,177,178}Hg(α) [from ^{92,94}Mo(⁸⁴Sr, xnyp) and subsequent decay]; measured E α , E γ , α - γ -coin, T_{1/2}. ¹⁶⁵Ta, ^{165,167}W, ^{165,166,167,168,171}Re, ^{169,170,171}Os, ^{169,170,171,172,175}Ir, ^{173,175}Pt, ^{174,176}Au deduced levels, J, π . THESIS J Goon, University of Tennessee

A=179

¹⁷⁹Hf 2004C026 RADIOACTIVITY ¹⁸⁰W(α); measured E α , T_{1/2}, Q-value. ^{182,183,184,186}W(α); measured T_{1/2} lower limits. CaWO₄ crystals. JOUR PRVCA 70 064606

2005BU07 NUCLEAR REACTIONS ¹⁶³Dy, ¹⁷⁷Hf(t, p), E=17 MeV; measured σ (Ep, θ). ¹⁶⁵Dy, ¹⁷⁹Hf deduced levels, L-values, L=0 strengths. Enriched targets, magnetic spectrograph. Systematic trends in neighboring nuclides discussed. JOUR NUPAB 750 185

2005ME01 NUCLEAR REACTIONS Hf(n, X), E=0.1-100 eV; measured total neutron σ . ^{174,176,177,178,179,180}Hf deduced resonance parameters. Comparison with previous results. JOUR KPSJA 46 401

¹⁷⁹Pt 2002DU22 RADIOACTIVITY ^{197,197m,198,199m,200,201m}Po(α); ^{172,173}Os(α) [from ¹⁵⁶Dy(²²Ne, xn)]; ^{183,184,185}Hg(α) [from ¹⁶⁸Yb(²²Ne, xn)]; measured E α , T_{1/2}. JOUR NIMAE 479 631

¹⁷⁹Au 2004RA28 RADIOACTIVITY ¹⁸³Tl, ¹⁷⁹Au(α) [from ¹⁴⁴Sm(⁴²Ca, 2np) and subsequent decay]; measured E α , E γ , α - γ -coin, T_{1/2}. ¹⁷⁹Au, ¹⁷⁵Ir deduced levels, J, π . JOUR PRVCA 70 064308

A=180

¹⁸⁰Hf 2004C026 RADIOACTIVITY ¹⁸⁰W(α); measured E α , T_{1/2}, Q-value. ^{182,183,184,186}W(α); measured T_{1/2} lower limits. CaWO₄ crystals. JOUR PRVCA 70 064606

2005ME01 NUCLEAR REACTIONS Hf(n, X), E=0.1-100 eV; measured total neutron σ . ^{174,176,177,178,179,180}Hf deduced resonance parameters. Comparison with previous results. JOUR KPSJA 46 401

¹⁸⁰W 2004C026 RADIOACTIVITY ¹⁸⁰W(α); measured E α , T_{1/2}, Q-value. ^{182,183,184,186}W(α); measured T_{1/2} lower limits. CaWO₄ crystals. JOUR PRVCA 70 064606

¹⁸⁰Pt 2002DU22 RADIOACTIVITY ^{197,197m,198,199m,200,201m}Po(α); ^{172,173}Os(α) [from ¹⁵⁶Dy(²²Ne, xn)]; ^{183,184,185}Hg(α) [from ¹⁶⁸Yb(²²Ne, xn)]; measured E α , T_{1/2}. JOUR NIMAE 479 631

A=181

¹⁸¹Pt 2002DU22 RADIOACTIVITY ^{197,197m,198,199m,200,201m}Po(α); ^{172,173}Os(α) [from ¹⁵⁶Dy(²²Ne, xn)]; ^{183,184,185}Hg(α) [from ¹⁶⁸Yb(²²Ne, xn)]; measured E α , T_{1/2}. JOUR NIMAE 479 631

A=181 (*continued*)

¹⁸¹Pb 2004CAZW RADIOACTIVITY ¹⁸¹Pb(α) [from ⁹²Mo(⁹⁰Zr, p)]; measured E α , T_{1/2}.
¹⁸¹Pb deduced ground-state J, π . REPT ANL-04/22,P43,Carpenter

A=182

¹⁸²Hf 2004C026 RADIOACTIVITY ¹⁸⁰W(α); measured E α , T_{1/2}, Q-value.
^{182,183,184,186}W(α); measured T_{1/2} lower limits. CaWO₄ crystals.
JOUR PRVCA 70 064606

¹⁸²W 2004C026 RADIOACTIVITY ¹⁸⁰W(α); measured E α , T_{1/2}, Q-value.
^{182,183,184,186}W(α); measured T_{1/2} lower limits. CaWO₄ crystals.
JOUR PRVCA 70 064606

A=183

¹⁸³W 2004C026 RADIOACTIVITY ¹⁸⁰W(α); measured E α , T_{1/2}, Q-value.
^{182,183,184,186}W(α); measured T_{1/2} lower limits. CaWO₄ crystals.
JOUR PRVCA 70 064606

¹⁸³Au 2005S001 NUCLEAR REACTIONS ¹⁵⁹Tb(²⁹Si, 5n), E=140 MeV; measured E γ ,
I γ , $\gamma\gamma$ -coin. ¹⁸³Au deduced high-spin levels, J, π , configurations.
GASP array. JOUR PRVCA 71 017302

¹⁸³Hg 2002DU22 RADIOACTIVITY ^{197,197m,198,199m,200,201m}Po(α); ^{172,173}Os(α) [from
¹⁵⁶Dy(²²Ne, xn)]; ^{183,184,185}Hg(α) [from ¹⁶⁸Yb(²²Ne, xn)]; measured
E α , T_{1/2}. JOUR NIMAE 479 631

¹⁸³Tl 2004RA28 NUCLEAR REACTIONS ¹⁴⁴Sm(⁴²Ca, 2np), E=195, 200 MeV;
measured E γ , I γ , $\gamma\gamma$ -, (recoil) γ -coin. ¹⁸³Tl deduced high-spin levels, J,
 π , configurations. Jurosphere array, recoil-decay tagging. JOUR
PRVCA 70 064308

 2004RA28 RADIOACTIVITY ¹⁸³Tl, ¹⁷⁹Au(α) [from ¹⁴⁴Sm(⁴²Ca, 2np) and
subsequent decay]; measured E α , E γ , $\alpha\gamma$ -coin, T_{1/2}. ¹⁷⁹Au, ¹⁷⁵Ir
deduced levels, J, π . JOUR PRVCA 70 064308

A=184

¹⁸⁴W 2004C026 RADIOACTIVITY ¹⁸⁰W(α); measured E α , T_{1/2}, Q-value.
^{182,183,184,186}W(α); measured T_{1/2} lower limits. CaWO₄ crystals.
JOUR PRVCA 70 064606

¹⁸⁴Re 2004GA57 NUCLEAR REACTIONS ¹⁸⁵Re, ¹⁹¹Ir, ¹⁹⁷Au(γ , n), E=22 MeV
bremsstrahlung; ¹⁸⁵Re, ¹⁹¹Ir, ¹⁹⁷Au(n, 2n), E=14.7 MeV; ¹⁸¹Ta(α , n),
E=18 MeV; ¹⁹⁰Os, ¹⁹⁶Pt(d, n), E=13, 14 MeV; measured E γ , I γ ;
deduced isomer production ratios. Activation method. JOUR BRSPE
68 187

¹⁸⁴Hg 2002DU22 RADIOACTIVITY ^{197,197m,198,199m,200,201m}Po(α); ^{172,173}Os(α) [from
¹⁵⁶Dy(²²Ne, xn)]; ^{183,184,185}Hg(α) [from ¹⁶⁸Yb(²²Ne, xn)]; measured
E α , T_{1/2}. JOUR NIMAE 479 631

A=184 (*continued*)

- ¹⁸⁴Tl 2005VA04 RADIOACTIVITY ¹⁸⁹Po(α) [from ¹⁴²Nd(⁵²Cr, 5n), (⁵⁰Cr, 3n)]; measured E α , E γ , E(ce), $\alpha\gamma$ -coin. ¹⁸⁵Pb deduced levels, J, π , ICC, T_{1/2}, configurations. ^{188,189,190,191}Bi, ^{189,190}Po(α) [from ¹⁴²Nd(⁵²Cr, X), (⁵⁰Cr, X)]; measured E α , I α . Potential energy surface calculations, level systematics in neighboring isotopes discussed. JOUR ZAANE 24 57

A=185

- ¹⁸⁵Hf 2005CA02 RADIOACTIVITY ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au(IT) [from Be(²⁰⁸Pb, X)]; measured E γ , I γ , $\gamma\gamma$ -coin, T_{1/2}. ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au deduced transitions. ¹⁹⁰W, ^{200,201,202}Pt deduced levels, J, π . ^{174,175}Er, ¹⁸⁵Hf, ^{191,194}Re, ¹⁹⁹Ir(IT) [from Be(²⁰⁸Pb, X)]; measured E γ , I γ . JOUR ZAANE 23 201
- ¹⁸⁵W 2002B067 NUCLEAR REACTIONS ¹⁸⁴W(n, γ), E=thermal; measured E γ , I γ , $\gamma\gamma$ -coin. ¹⁸⁵W deduced level energies, two-step cascade intensities, level density features. JOUR FIZBE 11 201
- ¹⁸⁵Re 2004MB03 NUCLEAR MOMENTS ^{113,115}In, ^{153,155}Eu, ^{185,187}Re, ^{203,205}Tl, ^{209,211}Fr; measured hfs; deduced hyperfine magnetic anomaly, relative radii. Laser resonance fluorescence. JOUR BRSPE 68 157
- ¹⁸⁵Hg 2002DU22 RADIOACTIVITY ^{197,197m,198,199m,200,201m}Po(α); ^{172,173}Os(α) [from ¹⁵⁶Dy(²²Ne, xn)]; ^{183,184,185}Hg(α) [from ¹⁶⁸Yb(²²Ne, xn)]; measured E α , T_{1/2}. JOUR NIMAE 479 631
- ¹⁸⁵Tl 2005VA04 RADIOACTIVITY ¹⁸⁹Po(α) [from ¹⁴²Nd(⁵²Cr, 5n), (⁵⁰Cr, 3n)]; measured E α , E γ , E(ce), $\alpha\gamma$ -coin. ¹⁸⁵Pb deduced levels, J, π , ICC, T_{1/2}, configurations. ^{188,189,190,191}Bi, ^{189,190}Po(α) [from ¹⁴²Nd(⁵²Cr, X), (⁵⁰Cr, X)]; measured E α , I α . Potential energy surface calculations, level systematics in neighboring isotopes discussed. JOUR ZAANE 24 57
- ¹⁸⁵Pb 2005VA04 RADIOACTIVITY ¹⁸⁹Po(α) [from ¹⁴²Nd(⁵²Cr, 5n), (⁵⁰Cr, 3n)]; measured E α , E γ , E(ce), $\alpha\gamma$ -coin. ¹⁸⁵Pb deduced levels, J, π , ICC, T_{1/2}, configurations. ^{188,189,190,191}Bi, ^{189,190}Po(α) [from ¹⁴²Nd(⁵²Cr, X), (⁵⁰Cr, X)]; measured E α , I α . Potential energy surface calculations, level systematics in neighboring isotopes discussed. JOUR ZAANE 24 57

A=186

- ¹⁸⁶W 2004C026 RADIOACTIVITY ¹⁸⁰W(α); measured E α , T_{1/2}, Q-value. ^{182,183,184,186}W(α); measured T_{1/2} lower limits. CaWO₄ crystals. JOUR PRVCA 70 064606
- ¹⁸⁶Re 2005HAZZ NUCLEAR REACTIONS ¹⁸⁵Re(n, γ), E=thermal; measured capture σ to ground and isomeric states. Astrophysical implications discussed. CONF Riken(Origin of Matter) Proc,P208,Hayakawa

A=186 (*continued*)

- ¹⁸⁶Tl 2005VA04 RADIOACTIVITY ¹⁸⁹Po(α) [from ¹⁴²Nd(⁵²Cr, 5n), (⁵⁰Cr, 3n)]; measured E α , E γ , E(ce), $\alpha\gamma$ -coin. ¹⁸⁵Pb deduced levels, J, π , ICC, T_{1/2}, configurations. ^{188,189,190,191}Bi, ^{189,190}Po(α) [from ¹⁴²Nd(⁵²Cr, X), (⁵⁰Cr, X)]; measured E α , I α . Potential energy surface calculations, level systematics in neighboring isotopes discussed. JOUR ZAANE 24 57
- ¹⁸⁶Pb 2005VA04 RADIOACTIVITY ¹⁸⁹Po(α) [from ¹⁴²Nd(⁵²Cr, 5n), (⁵⁰Cr, 3n)]; measured E α , E γ , E(ce), $\alpha\gamma$ -coin. ¹⁸⁵Pb deduced levels, J, π , ICC, T_{1/2}, configurations. ^{188,189,190,191}Bi, ^{189,190}Po(α) [from ¹⁴²Nd(⁵²Cr, X), (⁵⁰Cr, X)]; measured E α , I α . Potential energy surface calculations, level systematics in neighboring isotopes discussed. JOUR ZAANE 24 57

A=187

- ¹⁸⁷Re 2004MB03 NUCLEAR MOMENTS ^{113,115}In, ^{153,155}Eu, ^{185,187}Re, ^{203,205}Tl, ^{209,211}Fr; measured hfs; deduced hyperfine magnetic anomaly, relative radii. Laser resonance fluorescence. JOUR BRSPÉ 68 157
- ¹⁸⁷Tl 2005VA04 RADIOACTIVITY ¹⁸⁹Po(α) [from ¹⁴²Nd(⁵²Cr, 5n), (⁵⁰Cr, 3n)]; measured E α , E γ , E(ce), $\alpha\gamma$ -coin. ¹⁸⁵Pb deduced levels, J, π , ICC, T_{1/2}, configurations. ^{188,189,190,191}Bi, ^{189,190}Po(α) [from ¹⁴²Nd(⁵²Cr, X), (⁵⁰Cr, X)]; measured E α , I α . Potential energy surface calculations, level systematics in neighboring isotopes discussed. JOUR ZAANE 24 57

A=188

- ¹⁸⁸Ta 2005CA02 RADIOACTIVITY ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au(IT) [from Be(²⁰⁸Pb, X)]; measured E γ , I γ , $\gamma\gamma$ -coin, T_{1/2}. ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au deduced transitions. ¹⁹⁰W, ^{200,201,202}Pt deduced levels, J, π . ^{174,175}Er, ¹⁸⁵Hf, ^{191,194}Re, ¹⁹⁹Ir(IT) [from Be(²⁰⁸Pb, X)]; measured E γ , I γ . JOUR ZAANE 23 201
- ¹⁸⁸Bi 2005VA04 RADIOACTIVITY ¹⁸⁹Po(α) [from ¹⁴²Nd(⁵²Cr, 5n), (⁵⁰Cr, 3n)]; measured E α , E γ , E(ce), $\alpha\gamma$ -coin. ¹⁸⁵Pb deduced levels, J, π , ICC, T_{1/2}, configurations. ^{188,189,190,191}Bi, ^{189,190}Po(α) [from ¹⁴²Nd(⁵²Cr, X), (⁵⁰Cr, X)]; measured E α , I α . Potential energy surface calculations, level systematics in neighboring isotopes discussed. JOUR ZAANE 24 57

A=189

- ¹⁸⁹Tl 2005DE01 RADIOACTIVITY ^{200,201,203,205}Fr, ^{196,197,199,201}At, ¹⁹³Bi(α) [from Th(p, X) and subsequent decay]; measured E α , T_{1/2}. ²⁰¹Fr, ¹⁹⁷At, ¹⁹³Bi, ¹⁸⁹Tl deduced levels, J, π . JOUR ZAANE 23 243

A=189 (*continued*)

- ¹⁸⁹Pb 2005UU02 RADIOACTIVITY ^{201,202,203,204}Ra, ^{197,198,199,200}Rn, ^{193,194,195,196}Po, ^{201,202,203,204}Fr, ^{197,198,199,200}At(α) [from ¹⁴¹Pr(^{63,65}Cu, xnypz α), ¹⁷⁰Yb(³⁶Ar, xnypz α), and subsequent decay]; measured E α , T_{1/2}, $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195}Bi, ^{197,199}At, ^{201,203}Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306
- ¹⁸⁹Bi 2005VA04 RADIOACTIVITY ¹⁸⁹Po(α) [from ¹⁴²Nd(⁵²Cr, 5n), (⁵⁰Cr, 3n)]; measured E α , E γ , E(ce), $\alpha\gamma$ -coin. ¹⁸⁵Pb deduced levels, J, π , ICC, T_{1/2}, configurations. ^{188,189,190,191}Bi, ^{189,190}Po(α) [from ¹⁴²Nd(⁵²Cr, X), (⁵⁰Cr, X)]; measured E α , I α . Potential energy surface calculations, level systematics in neighboring isotopes discussed. JOUR ZAANE 24 57
- ¹⁸⁹Po 2005VA04 RADIOACTIVITY ¹⁸⁹Po(α) [from ¹⁴²Nd(⁵²Cr, 5n), (⁵⁰Cr, 3n)]; measured E α , E γ , E(ce), $\alpha\gamma$ -coin. ¹⁸⁵Pb deduced levels, J, π , ICC, T_{1/2}, configurations. ^{188,189,190,191}Bi, ^{189,190}Po(α) [from ¹⁴²Nd(⁵²Cr, X), (⁵⁰Cr, X)]; measured E α , I α . Potential energy surface calculations, level systematics in neighboring isotopes discussed. JOUR ZAANE 24 57

A=190

- ¹⁹⁰W 2005CA02 RADIOACTIVITY ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au(IT) [from Be(²⁰⁸Pb, X)]; measured E γ , I γ , $\gamma\gamma$ -coin, T_{1/2}. ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au deduced transitions. ¹⁹⁰W, ^{200,201,202}Pt deduced levels, J, π . ^{174,175}Er, ¹⁸⁵Hf, ^{191,194}Re, ¹⁹⁹Ir(IT) [from Be(²⁰⁸Pb, X)]; measured E γ , I γ . JOUR ZAANE 23 201
- ¹⁹⁰Pb 2005UU02 RADIOACTIVITY ^{201,202,203,204}Ra, ^{197,198,199,200}Rn, ^{193,194,195,196}Po, ^{201,202,203,204}Fr, ^{197,198,199,200}At(α) [from ¹⁴¹Pr(^{63,65}Cu, xnypz α), ¹⁷⁰Yb(³⁶Ar, xnypz α), and subsequent decay]; measured E α , T_{1/2}, $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195}Bi, ^{197,199}At, ^{201,203}Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306
- ¹⁹⁰Bi 2005VA04 RADIOACTIVITY ¹⁸⁹Po(α) [from ¹⁴²Nd(⁵²Cr, 5n), (⁵⁰Cr, 3n)]; measured E α , E γ , E(ce), $\alpha\gamma$ -coin. ¹⁸⁵Pb deduced levels, J, π , ICC, T_{1/2}, configurations. ^{188,189,190,191}Bi, ^{189,190}Po(α) [from ¹⁴²Nd(⁵²Cr, X), (⁵⁰Cr, X)]; measured E α , I α . Potential energy surface calculations, level systematics in neighboring isotopes discussed. JOUR ZAANE 24 57
- ¹⁹⁰Po 2005VA04 RADIOACTIVITY ¹⁸⁹Po(α) [from ¹⁴²Nd(⁵²Cr, 5n), (⁵⁰Cr, 3n)]; measured E α , E γ , E(ce), $\alpha\gamma$ -coin. ¹⁸⁵Pb deduced levels, J, π , ICC, T_{1/2}, configurations. ^{188,189,190,191}Bi, ^{189,190}Po(α) [from ¹⁴²Nd(⁵²Cr, X), (⁵⁰Cr, X)]; measured E α , I α . Potential energy surface calculations, level systematics in neighboring isotopes discussed. JOUR ZAANE 24 57

A=191

- ¹⁹¹Re 2005CA02 RADIOACTIVITY ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au(IT) [from Be(²⁰⁸Pb, X)]; measured E γ , I γ , $\gamma\gamma$ -coin, T_{1/2}. ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au deduced transitions. ¹⁹⁰W, ^{200,201,202}Pt deduced levels, J, π . ^{174,175}Er, ¹⁸⁵Hf, ^{191,194}Re, ¹⁹⁹Ir(IT) [from Be(²⁰⁸Pb, X)]; measured E γ , I γ . JOUR ZAANE 23 201
- ¹⁹¹Pt 2005KU01 NUCLEAR REACTIONS ¹⁸⁶W(¹¹B, 5np), E=85 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ¹⁹¹Pt deduced high-spin levels, J, π , configurations, shape coexistence. Eurogam-II array, cranked mean-field calculations. JOUR ZAANE 23 69
- ¹⁹¹Au 2004ADZW NUCLEAR REACTIONS ²⁰⁹Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³²Th(n, γ), ¹⁹⁷Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ¹¹⁵In(n, 5n), (n, 6n), (n, 7n), ⁵⁹Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, γ), (n, p), (n, 6n2p), E=spectrum; measured E γ , I γ ; deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam
- 2005AD01 NUCLEAR REACTIONS ²⁰⁹Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³²Th(n, γ), ¹⁹⁷Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ⁵⁹Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, p), (n, 6n2p), ¹¹⁵In(n, 5n), (n, 6n), (n, 7n), E=spectrum; measured E γ , I γ ; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61
- ¹⁹¹Pb 2005UU02 RADIOACTIVITY ^{201,202,203,204}Ra, ^{197,198,199,200}Rn, ^{193,194,195,196}Po, ^{201,202,203,204}Fr, ^{197,198,199,200}At(α) [from ¹⁴¹Pr(^{63,65}Cu, xnypz α), ¹⁷⁰Yb(³⁶Ar, xnypz α), and subsequent decay]; measured E α , T_{1/2}, $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195}Bi, ^{197,199}At, ^{201,203}Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306
- ¹⁹¹Bi 2005VA04 RADIOACTIVITY ¹⁸⁹Po(α) [from ¹⁴²Nd(⁵²Cr, 5n), (⁵⁰Cr, 3n)]; measured E α , E γ , E(ce), $\alpha\gamma$ -coin. ¹⁸⁵Pb deduced levels, J, π , ICC, T_{1/2}, configurations. ^{188,189,190,191}Bi, ^{189,190}Po(α) [from ¹⁴²Nd(⁵²Cr, X), (⁵⁰Cr, X)]; measured E α , I α . Potential energy surface calculations, level systematics in neighboring isotopes discussed. JOUR ZAANE 24 57

A=192

- ¹⁹²Re 2005CA02 RADIOACTIVITY ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au(IT) [from Be(²⁰⁸Pb, X)]; measured E γ , I γ , $\gamma\gamma$ -coin, T_{1/2}. ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au deduced transitions. ¹⁹⁰W, ^{200,201,202}Pt deduced levels, J, π . ^{174,175}Er, ¹⁸⁵Hf, ^{191,194}Re, ¹⁹⁹Ir(IT) [from Be(²⁰⁸Pb, X)]; measured E γ , I γ . JOUR ZAANE 23 201
- ¹⁹²Ir 2004HIZZ NUCLEAR REACTIONS ¹⁰²Ru(³He, 2n), ¹⁰⁰Ru(α , n), ¹⁰³Rh(d, 2n), (p, n), E \approx 5-35 MeV; analyzed excitation functions, yields. Ce(³He, xn)¹⁴⁰Nd, E < 27 MeV; ¹⁴¹Pr(p, 2n), E < 23 MeV; measured yields. ¹⁹²Os(p, n), E \approx 6-20; measured σ . REPT NEA/NSC/DOC(2004)14,P15,Hilgers

A=192 (continued)

^{192}Au	2004ADZW	NUCLEAR REACTIONS $^{209}\text{Bi}(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $(\text{n}, 9\text{n})$, $^{232}\text{Th}(\text{n}, \gamma)$, $^{197}\text{Au}(\text{n}, 2\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, (n, γ) , $^{115}\text{In}(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $^{59}\text{Co}(\text{n}, 2\text{n})$, $(\text{n}, 3\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, (n, γ) , (n, p) , $(\text{n}, 6\text{n}2\text{p})$, E=spectrum; measured $E\gamma$, $I\gamma$; deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam
	2005AD01	NUCLEAR REACTIONS $^{209}\text{Bi}(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $(\text{n}, 9\text{n})$, $^{232}\text{Th}(\text{n}, \gamma)$, $^{197}\text{Au}(\text{n}, 2\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, (n, γ) , $^{59}\text{Co}(\text{n}, 2\text{n})$, $(\text{n}, 3\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, (n, p) , $(\text{n}, 6\text{n}2\text{p})$, $^{115}\text{In}(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, E=spectrum; measured $E\gamma$, $I\gamma$; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61
^{192}Pb	2004WIZX	NUCLEAR REACTIONS $^{168}\text{Er}(^{29}\text{Si}, 5\text{n})$, E=154 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, DSA. ^{192}Pb deduced superdeformed band levels $T_{1/2}$, quadrupole moment. Gammasphere array, total Routhian surface calculations. PREPRINT ANU-P/1610, Wilson
	2005UU02	RADIOACTIVITY $^{201,202,203,204}\text{Ra}$, $^{197,198,199,200}\text{Rn}$, $^{193,194,195,196}\text{Po}$, $^{201,202,203,204}\text{Fr}$, $^{197,198,199,200}\text{At}(\alpha)$ [from $^{141}\text{Pr}(^{63,65}\text{Cu}, \text{xnp}\alpha)$, $^{170}\text{Yb}(^{36}\text{Ar}, \text{xnp}\alpha)$, and subsequent decay]; measured $E\alpha$, $T_{1/2}$, $\alpha\alpha$ -coin for ground and metastable state decay. $^{193,195}\text{Bi}$, $^{197,199}\text{At}$, $^{201,203}\text{Fr}$ deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306
	2005WI01	NUCLEAR REACTIONS $^{168}\text{Er}(^{29}\text{Si}, 5\text{n})$, E=154 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, DSA. ^{192}Pb deduced superdeformed band levels $T_{1/2}$, quadrupole moment. Gammasphere array, total Routhian surface calculations. JOUR NUPAB 748 12
^{192}Bi	2005DE01	RADIOACTIVITY $^{200,201,203,205}\text{Fr}$, $^{196,197,199,201}\text{At}$, $^{193}\text{Bi}(\alpha)$ [from Th(p, X) and subsequent decay]; measured $E\alpha$, $T_{1/2}$. ^{201}Fr , ^{197}At , ^{193}Bi , ^{189}Tl deduced levels, J, π . JOUR ZAANE 23 243

A=193

^{193}Re	2005CA02	RADIOACTIVITY ^{188}Ta , ^{190}W , $^{192,193}\text{Re}$, ^{195}Os , $^{197,198}\text{Ir}$, $^{200,201,202}\text{Pt}$, $^{203}\text{Au}(\text{IT})$ [from Be(^{208}Pb , X)]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $T_{1/2}$. ^{188}Ta , ^{190}W , $^{192,193}\text{Re}$, ^{195}Os , $^{197,198}\text{Ir}$, $^{200,201,202}\text{Pt}$, ^{203}Au deduced transitions. ^{190}W , $^{200,201,202}\text{Pt}$ deduced levels, J, π . $^{174,175}\text{Er}$, ^{185}Hf , $^{191,194}\text{Re}$, $^{199}\text{Ir}(\text{IT})$ [from Be(^{208}Pb , X)]; measured $E\gamma$, $I\gamma$. JOUR ZAANE 23 201
^{193}Os	2002B066	NUCLEAR REACTIONS $^{192}\text{Os}(\text{n}, \gamma)$, E=thermal; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{193}Os deduced level energies, two-step cascade intensities, level density features. JOUR FIZBE 11 83
^{193}Ir	2005KI01	NUCLEAR REACTIONS $^{193}\text{Ir}(\text{X-ray}, \text{X-ray})$, $(\text{X-ray}, \gamma)$, E=low; measured γ -spectra, X-ray spectra. ^{193}Ir deduced probability for nuclear excitation by electron transition. Synchrotron radiation, silicon avalanche photodiode. JOUR NUPAB 748 3
^{193}Pb	2002DU22	RADIOACTIVITY $^{197,197m,198,199m,200,201m}\text{Po}(\alpha)$; $^{172,173}\text{Os}(\alpha)$ [from $^{156}\text{Dy}(^{22}\text{Ne}, \text{xn})$]; $^{183,184,185}\text{Hg}(\alpha)$ [from $^{168}\text{Yb}(^{22}\text{Ne}, \text{xn})$]; measured $E\alpha$, $T_{1/2}$. JOUR NIMAE 479 631

A=193 (continued)

- ¹⁹³Bi 2004KE15 NUCLEAR REACTIONS ^{1,2}H, Ti(²⁰⁸Pb, X)¹⁹³Bi / ¹⁹⁴Bi / ¹⁹⁵Bi / ¹⁹⁶Bi / ¹⁹⁷Bi / ¹⁹⁸Bi / ¹⁹⁹Bi / ²⁰⁰Bi / ²⁰¹Bi / ²⁰²Bi / ²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi / ²⁰⁷Bi / ²⁰⁸Bi, E=1 GeV / nucleon; measured charge-pickup σ , velocity distributions; deduced reaction mechanism features. Comparison with model predictions and previous results. JOUR PRVCA 70 064608
- 2005DE01 RADIOACTIVITY ^{200,201,203,205}Fr, ^{196,197,199,201}At, ¹⁹³Bi(α) [from Th(p, X) and subsequent decay]; measured E α , T_{1/2}. ²⁰¹Fr, ¹⁹⁷At, ¹⁹³Bi, ¹⁸⁹Tl deduced levels, J, π . JOUR ZAANE 23 243
- 2005UU02 RADIOACTIVITY ^{201,202,203,204}Ra, ^{197,198,199,200}Rn, ^{193,194,195,196}Po, ^{201,202,203,204}Fr, ^{197,198,199,200}At(α) [from ¹⁴¹Pr(^{63,65}Cu, xnypz α), ¹⁷⁰Yb(³⁶Ar, xnypz α), and subsequent decay]; measured E α , T_{1/2}, $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195}Bi, ^{197,199}At, ^{201,203}Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306
- ¹⁹³Po 2005UU02 RADIOACTIVITY ^{201,202,203,204}Ra, ^{197,198,199,200}Rn, ^{193,194,195,196}Po, ^{201,202,203,204}Fr, ^{197,198,199,200}At(α) [from ¹⁴¹Pr(^{63,65}Cu, xnypz α), ¹⁷⁰Yb(³⁶Ar, xnypz α), and subsequent decay]; measured E α , T_{1/2}, $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195}Bi, ^{197,199}At, ^{201,203}Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306

A=194

- ¹⁹⁴Re 2005CA02 RADIOACTIVITY ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au(IT) [from Be(²⁰⁸Pb, X)]; measured E γ , I γ , $\gamma\gamma$ -coin, T_{1/2}. ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au deduced transitions. ¹⁹⁰W, ^{200,201,202}Pt deduced levels, J, π . ^{174,175}Er, ¹⁸⁵Hf, ^{191,194}Re, ¹⁹⁹Ir(IT) [from Be(²⁰⁸Pb, X)]; measured E γ , I γ . JOUR ZAANE 23 201
- ¹⁹⁴Au 2004ADZW NUCLEAR REACTIONS ²⁰⁹Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³²Th(n, γ), ¹⁹⁷Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ¹¹⁵In(n, 5n), (n, 6n), (n, 7n), ⁵⁹Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, γ), (n, p), (n, 6n2p), E=spectrum; measured E γ , I γ ; deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16,Adam
- 2005AD01 NUCLEAR REACTIONS ²⁰⁹Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³²Th(n, γ), ¹⁹⁷Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ⁵⁹Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, p), (n, 6n2p), ¹¹⁵In(n, 5n), (n, 6n), (n, 7n), E=spectrum; measured E γ , I γ ; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61
- ¹⁹⁴Hg 2004KHZX NUCLEAR REACTIONS ¹⁵⁰Nd(⁴⁸Ca, 4n), E not given; measured E γ , I γ , $\gamma\gamma$ -coin. ¹⁹⁴Hg deduced spreading widths for excited superdeformed quasicontinuum transitions. Gammasphere array. REPT ANL-04/22,P61,Khoo

A=194 (*continued*)

- ¹⁹⁴Pb 2002DU22 RADIOACTIVITY ^{197,197m,198,199m,200,201m}Po(α); ^{172,173}Os(α) [from ¹⁵⁶Dy(²²Ne, xn)]; ^{183,184,185}Hg(α) [from ¹⁶⁸Yb(²²Ne, xn)]; measured $E\alpha$, $T_{1/2}$. JOUR NIMAE 479 631
- ¹⁹⁴Bi 2004KE15 NUCLEAR REACTIONS ^{1,2}H, Ti(²⁰⁸Pb, X)¹⁹³Bi / ¹⁹⁴Bi / ¹⁹⁵Bi / ¹⁹⁶Bi / ¹⁹⁷Bi / ¹⁹⁸Bi / ¹⁹⁹Bi / ²⁰⁰Bi / ²⁰¹Bi / ²⁰²Bi / ²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi / ²⁰⁷Bi / ²⁰⁸Bi, E=1 GeV / nucleon; measured charge-pickup σ , velocity distributions; deduced reaction mechanism features. Comparison with model predictions and previous results. JOUR PRVCA 70 064608
- 2005UU02 RADIOACTIVITY ^{201,202,203,204}Ra, ^{197,198,199,200}Rn, ^{193,194,195,196}Po, ^{201,202,203,204}Fr, ^{197,198,199,200}At(α) [from ¹⁴¹Pr(^{63,65}Cu, xnyp α)], ¹⁷⁰Yb(³⁶Ar, xnyp α), and subsequent decay]; measured $E\alpha$, $T_{1/2}$, $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195}Bi, ^{197,199}At, ^{201,203}Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306
- ¹⁹⁴Po 2005UU02 RADIOACTIVITY ^{201,202,203,204}Ra, ^{197,198,199,200}Rn, ^{193,194,195,196}Po, ^{201,202,203,204}Fr, ^{197,198,199,200}At(α) [from ¹⁴¹Pr(^{63,65}Cu, xnyp α)], ¹⁷⁰Yb(³⁶Ar, xnyp α), and subsequent decay]; measured $E\alpha$, $T_{1/2}$, $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195}Bi, ^{197,199}At, ^{201,203}Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306

A=195

- ¹⁹⁵Os 2005CA02 RADIOACTIVITY ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au(IT) [from Be(²⁰⁸Pb, X)]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $T_{1/2}$. ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au deduced transitions. ¹⁹⁰W, ^{200,201,202}Pt deduced levels, J, π . ^{174,175}Er, ¹⁸⁵Hf, ^{191,194}Re, ¹⁹⁹Ir(IT) [from Be(²⁰⁸Pb, X)]; measured $E\gamma$, $I\gamma$. JOUR ZAANE 23 201
- ¹⁹⁵Au 2003HI23 NUCLEAR REACTIONS ¹⁹⁷Au(²⁰⁸Pb, X)¹⁹⁵Au / ¹⁹⁶Au, E=40, 158 GeV / nucleon; measured electromagnetic dissociation σ for one- and two-neutron removal. JOUR UKPJA 48 1165
- ¹⁹⁵Pb 2002DU22 RADIOACTIVITY ^{197,197m,198,199m,200,201m}Po(α); ^{172,173}Os(α) [from ¹⁵⁶Dy(²²Ne, xn)]; ^{183,184,185}Hg(α) [from ¹⁶⁸Yb(²²Ne, xn)]; measured $E\alpha$, $T_{1/2}$. JOUR NIMAE 479 631
- ¹⁹⁵Bi 2004KE15 NUCLEAR REACTIONS ^{1,2}H, Ti(²⁰⁸Pb, X)¹⁹³Bi / ¹⁹⁴Bi / ¹⁹⁵Bi / ¹⁹⁶Bi / ¹⁹⁷Bi / ¹⁹⁸Bi / ¹⁹⁹Bi / ²⁰⁰Bi / ²⁰¹Bi / ²⁰²Bi / ²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi / ²⁰⁷Bi / ²⁰⁸Bi, E=1 GeV / nucleon; measured charge-pickup σ , velocity distributions; deduced reaction mechanism features. Comparison with model predictions and previous results. JOUR PRVCA 70 064608
- 2005DE01 RADIOACTIVITY ^{200,201,203,205}Fr, ^{196,197,199,201}At, ¹⁹³Bi(α) [from Th(p, X) and subsequent decay]; measured $E\alpha$, $T_{1/2}$. ²⁰¹Fr, ¹⁹⁷At, ¹⁹³Bi, ¹⁸⁹Tl deduced levels, J, π . JOUR ZAANE 23 243

A=195 (continued)

- 2005UU02 RADIOACTIVITY ^{201,202,203,204}Ra, ^{197,198,199,200}Rn, ^{193,194,195,196}Po, ^{201,202,203,204}Fr, ^{197,198,199,200}At(α) [from ¹⁴¹Pr(^{63,65}Cu, xnypz α), ¹⁷⁰Yb(³⁶Ar, xnypz α), and subsequent decay]; measured $E\alpha$, $T_{1/2}$, $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195}Bi, ^{197,199}At, ^{201,203}Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306
- ¹⁹⁵Po 2005UU02 RADIOACTIVITY ^{201,202,203,204}Ra, ^{197,198,199,200}Rn, ^{193,194,195,196}Po, ^{201,202,203,204}Fr, ^{197,198,199,200}At(α) [from ¹⁴¹Pr(^{63,65}Cu, xnypz α), ¹⁷⁰Yb(³⁶Ar, xnypz α), and subsequent decay]; measured $E\alpha$, $T_{1/2}$, $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195}Bi, ^{197,199}At, ^{201,203}Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306

A=196

- ¹⁹⁶Au 2003HI23 NUCLEAR REACTIONS ¹⁹⁷Au(²⁰⁸Pb, X)¹⁹⁵Au / ¹⁹⁶Au, E=40, 158 GeV / nucleon; measured electromagnetic dissociation σ for one- and two-neutron removal. JOUR UKPJA 48 1165
- 2004ADZW NUCLEAR REACTIONS ²⁰⁹Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³²Th(n, γ), ¹⁹⁷Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ¹¹⁵In(n, 5n), (n, 6n), (n, 7n), ⁵⁹Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, γ), (n, p), (n, 6n2p), E=spectrum; measured $E\gamma$, $I\gamma$; deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam
- 2004GA57 NUCLEAR REACTIONS ¹⁸⁵Re, ¹⁹¹Ir, ¹⁹⁷Au(γ , n), E=22 MeV bremsstrahlung; ¹⁸⁵Re, ¹⁹¹Ir, ¹⁹⁷Au(n, 2n), E=14.7 MeV; ¹⁸¹Ta(α , n), E=18 MeV; ¹⁹⁰Os, ¹⁹⁶Pt(d, n), E=13, 14 MeV; measured $E\gamma$, $I\gamma$; deduced isomer production ratios. Activation method. JOUR BRSPE 68 187
- 2004MIZS NUCLEAR REACTIONS Fe(p, X)⁵²Mn, E < 2.6 GeV; Pb(p, X)¹⁰Be, E < 2.6 GeV; ²⁰⁹Bi(p, 4np), E < 2.6 GeV; Pb(n, X)¹⁹⁶Au / ⁹⁵Zr, E \approx 70-180 MeV; measured excitation functions. Comparison with model predictions. REPT NEA/NSC/DOC(2004)14,P28,Michel
- 2005AD01 NUCLEAR REACTIONS ²⁰⁹Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³²Th(n, γ), ¹⁹⁷Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ⁵⁹Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, p), (n, 6n2p), ¹¹⁵In(n, 5n), (n, 6n), (n, 7n), E=spectrum; measured $E\gamma$, $I\gamma$; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61
- ¹⁹⁶Pb 2002DU22 RADIOACTIVITY ^{197,197m,198,199m,200,201m}Po(α); ^{172,173}Os(α) [from ¹⁵⁶Dy(²²Ne, xn)]; ^{183,184,185}Hg(α) [from ¹⁶⁸Yb(²²Ne, xn)]; measured $E\alpha$, $T_{1/2}$. JOUR NIMAE 479 631
- ¹⁹⁶Bi 2004KE15 NUCLEAR REACTIONS ^{1,2}H, Ti(²⁰⁸Pb, X)¹⁹³Bi / ¹⁹⁴Bi / ¹⁹⁵Bi / ¹⁹⁶Bi / ¹⁹⁷Bi / ¹⁹⁸Bi / ¹⁹⁹Bi / ²⁰⁰Bi / ²⁰¹Bi / ²⁰²Bi / ²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi / ²⁰⁷Bi / ²⁰⁸Bi, E=1 GeV / nucleon; measured charge-pickup σ , velocity distributions; deduced reaction mechanism features. Comparison with model predictions and previous results. JOUR PRVCA 70 064608

A=196 (*continued*)

- 2005UU02 RADIOACTIVITY ^{201,202,203,204}Ra, ^{197,198,199,200}Rn, ^{193,194,195,196}Po, ^{201,202,203,204}Fr, ^{197,198,199,200}At(α) [from ¹⁴¹Pr(^{63,65}Cu, xnypz α), ¹⁷⁰Yb(³⁶Ar, xnypz α), and subsequent decay]; measured $E\alpha$, $T_{1/2}$, $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195}Bi, ^{197,199}At, ^{201,203}Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306
- ¹⁹⁶Po 2005UU02 RADIOACTIVITY ^{201,202,203,204}Ra, ^{197,198,199,200}Rn, ^{193,194,195,196}Po, ^{201,202,203,204}Fr, ^{197,198,199,200}At(α) [from ¹⁴¹Pr(^{63,65}Cu, xnypz α), ¹⁷⁰Yb(³⁶Ar, xnypz α), and subsequent decay]; measured $E\alpha$, $T_{1/2}$, $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195}Bi, ^{197,199}At, ^{201,203}Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306
- ¹⁹⁶At 2005DE01 RADIOACTIVITY ^{200,201,203,205}Fr, ^{196,197,199,201}At, ¹⁹³Bi(α) [from Th(p, X) and subsequent decay]; measured $E\alpha$, $T_{1/2}$. ²⁰¹Fr, ¹⁹⁷At, ¹⁹³Bi, ¹⁸⁹Tl deduced levels, J, π . JOUR ZAANE 23 243

A=197

- ¹⁹⁷Ir 2005CA02 RADIOACTIVITY ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au(IT) [from Be(²⁰⁸Pb, X)]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $T_{1/2}$. ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au deduced transitions. ¹⁹⁰W, ^{200,201,202}Pt deduced levels, J, π . ^{174,175}Er, ¹⁸⁵Hf, ^{191,194}Re, ¹⁹⁹Ir(IT) [from Be(²⁰⁸Pb, X)]; measured $E\gamma$, $I\gamma$. JOUR ZAANE 23 201
- ¹⁹⁷Au 2004GA57 NUCLEAR REACTIONS ¹⁸⁵Re, ¹⁹¹Ir, ¹⁹⁷Au(γ , n), E=22 MeV bremsstrahlung; ¹⁸⁵Re, ¹⁹¹Ir, ¹⁹⁷Au(n, 2n), E=14.7 MeV; ¹⁸¹Ta(α , n), E=18 MeV; ¹⁹⁰Os, ¹⁹⁶Pt(d, n), E=13, 14 MeV; measured $E\gamma$, $I\gamma$; deduced isomer production ratios. Activation method. JOUR BRSPE 68 187
- 2004YU11 NUCLEAR REACTIONS ¹⁹⁷Au(⁵⁵Ni, ⁵⁵Ni'), E=84.8 MeV; measured $E\gamma$, $I\gamma$, (particle) γ -coin following projectile Coulomb excitation. ⁵⁵Ni deduced level, transition B(E2). Comparison with model predictions. JOUR PRVCA 70 064321
- 2005W001 NUCLEAR REACTIONS ¹⁹⁷Au(⁸⁴Kr, ⁸⁴Kr'), (⁵⁶Cr, ⁵⁶Cr'), (¹⁰⁸Sn, ¹⁰⁸Sn'), E=113-142 MeV / nucleon; measured $E\gamma$, $I\gamma$ following projectile Coulomb excitation. ⁸⁴Kr, ⁵⁶Cr, ¹⁰⁸Sn deduced transitions. ⁹Be(⁵⁵Ni, X) ⁵⁴Co / ⁵²Fe / ⁵⁰Cr, E=171 MeV / nucleon; measured $E\gamma$, $I\gamma$, (particle) γ -coin. JOUR NIMAE 537 637
- ¹⁹⁷Hg 2003MB03 NUCLEAR REACTIONS ¹⁹⁸Pt, ¹⁹⁸Hg(γ , n), E=8-17 MeV; measured $E\gamma$, $I\gamma$, isomer yield ratios. Comparison with model predictions. JOUR UKPJA 48 403
- ¹⁹⁷Pb 2002DU22 RADIOACTIVITY ^{197,197m,198,199m,200,201m}Po(α); ^{172,173}Os(α) [from ¹⁵⁶Dy(²²Ne, xn)]; ^{183,184,185}Hg(α) [from ¹⁶⁸Yb(²²Ne, xn)]; measured $E\alpha$, $T_{1/2}$. JOUR NIMAE 479 631

A=197 (continued)

¹⁹⁷ Bi	2004KE15	NUCLEAR REACTIONS ^{1,2} H, Ti(²⁰⁸ Pb, X) ¹⁹³ Bi / ¹⁹⁴ Bi / ¹⁹⁵ Bi / ¹⁹⁶ Bi / ¹⁹⁷ Bi / ¹⁹⁸ Bi / ¹⁹⁹ Bi / ²⁰⁰ Bi / ²⁰¹ Bi / ²⁰² Bi / ²⁰³ Bi / ²⁰⁴ Bi / ²⁰⁵ Bi / ²⁰⁶ Bi / ²⁰⁷ Bi / ²⁰⁸ Bi, E=1 GeV / nucleon; measured charge-pickup σ , velocity distributions; deduced reaction mechanism features. Comparison with model predictions and previous results. JOUR PRVCA 70 064608
	2005DE01	RADIOACTIVITY ^{200,201,203,205} Fr, ^{196,197,199,201} At, ¹⁹³ Bi(α) [from Th(p, X) and subsequent decay]; measured $E\alpha$, $T_{1/2}$. ²⁰¹ Fr, ¹⁹⁷ At, ¹⁹³ Bi, ¹⁸⁹ Tl deduced levels, J, π . JOUR ZAANE 23 243
¹⁹⁷ Po	2002DU22	RADIOACTIVITY ^{197,197m,198,199m,200,201m} Po(α); ^{172,173} Os(α) [from ¹⁵⁶ Dy(²² Ne, xn)]; ^{183,184,185} Hg(α) [from ¹⁶⁸ Yb(²² Ne, xn)]; measured $E\alpha$, $T_{1/2}$. JOUR NIMAE 479 631
¹⁹⁷ At	2005DE01	RADIOACTIVITY ^{200,201,203,205} Fr, ^{196,197,199,201} At, ¹⁹³ Bi(α) [from Th(p, X) and subsequent decay]; measured $E\alpha$, $T_{1/2}$. ²⁰¹ Fr, ¹⁹⁷ At, ¹⁹³ Bi, ¹⁸⁹ Tl deduced levels, J, π . JOUR ZAANE 23 243
	2005UU02	RADIOACTIVITY ^{201,202,203,204} Ra, ^{197,198,199,200} Rn, ^{193,194,195,196} Po, ^{201,202,203,204} Fr, ^{197,198,199,200} At(α) [from ¹⁴¹ Pr(^{63,65} Cu, xnyp α), ¹⁷⁰ Yb(³⁶ Ar, xnyp α), and subsequent decay]; measured $E\alpha$, $T_{1/2}$, $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195} Bi, ^{197,199} At, ^{201,203} Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306
¹⁹⁷ Rn	2005UU02	RADIOACTIVITY ^{201,202,203,204} Ra, ^{197,198,199,200} Rn, ^{193,194,195,196} Po, ^{201,202,203,204} Fr, ^{197,198,199,200} At(α) [from ¹⁴¹ Pr(^{63,65} Cu, xnyp α), ¹⁷⁰ Yb(³⁶ Ar, xnyp α), and subsequent decay]; measured $E\alpha$, $T_{1/2}$, $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195} Bi, ^{197,199} At, ^{201,203} Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306

A=198

¹⁹⁸ Ir	2005CA02	RADIOACTIVITY ¹⁸⁸ Ta, ¹⁹⁰ W, ^{192,193} Re, ¹⁹⁵ Os, ^{197,198} Ir, ^{200,201,202} Pt, ²⁰³ Au(IT) [from Be(²⁰⁸ Pb, X)]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $T_{1/2}$. ¹⁸⁸ Ta, ¹⁹⁰ W, ^{192,193} Re, ¹⁹⁵ Os, ^{197,198} Ir, ^{200,201,202} Pt, ²⁰³ Au deduced transitions. ¹⁹⁰ W, ^{200,201,202} Pt deduced levels, J, π . ^{174,175} Er, ¹⁸⁵ Hf, ^{191,194} Re, ¹⁹⁹ Ir(IT) [from Be(²⁰⁸ Pb, X)]; measured $E\gamma$, $I\gamma$. JOUR ZAANE 23 201
¹⁹⁸ Au	2004ADZW	NUCLEAR REACTIONS ²⁰⁹ Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³² Th(n, γ), ¹⁹⁷ Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ¹¹⁵ In(n, 5n), (n, 6n), (n, 7n), ⁵⁹ Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, γ), (n, p), (n, 6n2p), E=spectrum; measured $E\gamma$, $I\gamma$; deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam
	2005AD01	NUCLEAR REACTIONS ²⁰⁹ Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³² Th(n, γ), ¹⁹⁷ Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ⁵⁹ Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, p), (n, 6n2p), ¹¹⁵ In(n, 5n), (n, 6n), (n, 7n), E=spectrum; measured $E\gamma$, $I\gamma$; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61

A=198 (*continued*)

¹⁹⁸ Bi	2004KE15	NUCLEAR REACTIONS ^{1,2} H, Ti(²⁰⁸ Pb, X) ¹⁹³ Bi / ¹⁹⁴ Bi / ¹⁹⁵ Bi / ¹⁹⁶ Bi / ¹⁹⁷ Bi / ¹⁹⁸ Bi / ¹⁹⁹ Bi / ²⁰⁰ Bi / ²⁰¹ Bi / ²⁰² Bi / ²⁰³ Bi / ²⁰⁴ Bi / ²⁰⁵ Bi / ²⁰⁶ Bi / ²⁰⁷ Bi / ²⁰⁸ Bi, E=1 GeV / nucleon; measured charge-pickup σ , velocity distributions; deduced reaction mechanism features. Comparison with model predictions and previous results. JOUR PRVCA 70 064608
¹⁹⁸ Po	2002DU22	RADIOACTIVITY ^{197,197m,198,199m,200,201m} Po(α); ^{172,173} Os(α) [from ¹⁵⁶ Dy(²² Ne, xn)]; ^{183,184,185} Hg(α) [from ¹⁶⁸ Yb(²² Ne, xn)]; measured E α , T _{1/2} . JOUR NIMAE 479 631
	2005J003	NUCLEAR REACTIONS ¹⁷⁴ Yb(²⁹ Si, 5n), E=148 MeV; measured E γ , I γ , $\gamma\gamma$ -coin. ¹⁹⁸ Po deduced spin-energy entry distributions for superdeformed and normal-deformed rotational bands. Gammasphere array. JOUR PRVCA 71 024317
¹⁹⁸ At	2005UU02	RADIOACTIVITY ^{201,202,203,204} Ra, ^{197,198,199,200} Rn, ^{193,194,195,196} Po, ^{201,202,203,204} Fr, ^{197,198,199,200} At(α) [from ¹⁴¹ Pr(^{63,65} Cu, xnyp α)], ¹⁷⁰ Yb(³⁶ Ar, xnyp α), and subsequent decay]; measured E α , T _{1/2} , $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195} Bi, ^{197,199} At, ^{201,203} Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306
¹⁹⁸ Rn	2005UU02	NUCLEAR REACTIONS ¹⁴¹ Pr(⁶⁵ Cu, xnyp α), E=283-293 MeV; measured delayed E α , I α , $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ^{199,200,201} Rn, ^{202,203,204} Fr, ^{203,204} Ra. ¹⁴¹ Pr(⁶³ Cu, xnyp α), E=278-288 MeV; measured delayed E α , I α , $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ^{198,199,200,201,202} Rn, ^{201,202} Fr, ^{201,202} Ra. ¹⁷⁰ Yb(³⁶ Ar, xnyp α), E=180-185 MeV; measured delayed E α , I α , $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ²⁰¹ Fr, ²⁰³ Ra. Gas-filled recoil separator. JOUR PRVCA 71 024306
	2005UU02	RADIOACTIVITY ^{201,202,203,204} Ra, ^{197,198,199,200} Rn, ^{193,194,195,196} Po, ^{201,202,203,204} Fr, ^{197,198,199,200} At(α) [from ¹⁴¹ Pr(^{63,65} Cu, xnyp α)], ¹⁷⁰ Yb(³⁶ Ar, xnyp α), and subsequent decay]; measured E α , T _{1/2} , $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195} Bi, ^{197,199} At, ^{201,203} Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306

A=199

¹⁹⁹ Ir	2005CA02	RADIOACTIVITY ¹⁸⁸ Ta, ¹⁹⁰ W, ^{192,193} Re, ¹⁹⁵ Os, ^{197,198} Ir, ^{200,201,202} Pt, ²⁰³ Au(IT) [from Be(²⁰⁸ Pb, X)]; measured E γ , I γ , $\gamma\gamma$ -coin, T _{1/2} . ¹⁸⁸ Ta, ¹⁹⁰ W, ^{192,193} Re, ¹⁹⁵ Os, ^{197,198} Ir, ^{200,201,202} Pt, ²⁰³ Au deduced transitions. ¹⁹⁰ W, ^{200,201,202} Pt deduced levels, J, π . ^{174,175} Er, ¹⁸⁵ Hf, ^{191,194} Re, ¹⁹⁹ Ir(IT) [from Be(²⁰⁸ Pb, X)]; measured E γ , I γ . JOUR ZAANE 23 201
¹⁹⁹ Bi	2004KE15	NUCLEAR REACTIONS ^{1,2} H, Ti(²⁰⁸ Pb, X) ¹⁹³ Bi / ¹⁹⁴ Bi / ¹⁹⁵ Bi / ¹⁹⁶ Bi / ¹⁹⁷ Bi / ¹⁹⁸ Bi / ¹⁹⁹ Bi / ²⁰⁰ Bi / ²⁰¹ Bi / ²⁰² Bi / ²⁰³ Bi / ²⁰⁴ Bi / ²⁰⁵ Bi / ²⁰⁶ Bi / ²⁰⁷ Bi / ²⁰⁸ Bi, E=1 GeV / nucleon; measured charge-pickup σ , velocity distributions; deduced reaction mechanism features. Comparison with model predictions and previous results. JOUR PRVCA 70 064608

A=199 (continued)

¹⁹⁹ Po	2002DU22	RADIOACTIVITY ^{197,197m,198,199m,200,201m} Po(α); ^{172,173} Os(α) [from ¹⁵⁶ Dy(²² Ne, xn)]; ^{183,184,185} Hg(α) [from ¹⁶⁸ Yb(²² Ne, xn)]; measured E α , T _{1/2} . JOUR NIMAE 479 631
¹⁹⁹ At	2005DE01	RADIOACTIVITY ^{200,201,203,205} Fr, ^{196,197,199,201} At, ¹⁹³ Bi(α) [from Th(p, X) and subsequent decay]; measured E α , T _{1/2} . ²⁰¹ Fr, ¹⁹⁷ At, ¹⁹³ Bi, ¹⁸⁹ Tl deduced levels, J, π . JOUR ZAANE 23 243
	2005UU02	RADIOACTIVITY ^{201,202,203,204} Ra, ^{197,198,199,200} Rn, ^{193,194,195,196} Po, ^{201,202,203,204} Fr, ^{197,198,199,200} At(α) [from ¹⁴¹ Pr(^{63,65} Cu, xnyp α), ¹⁷⁰ Yb(³⁶ Ar, xnyp α), and subsequent decay]; measured E α , T _{1/2} , $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195} Bi, ^{197,199} At, ^{201,203} Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306
¹⁹⁹ Rn	2005UU02	NUCLEAR REACTIONS ¹⁴¹ Pr(⁶⁵ Cu, xnyp α), E=283-293 MeV; measured delayed E α , I α , $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ^{199,200,201} Rn, ^{202,203,204} Fr, ^{203,204} Ra. ¹⁴¹ Pr(⁶³ Cu, xnyp α), E=278-288 MeV; measured delayed E α , I α , $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ^{198,199,200,201,202} Rn, ^{201,202} Fr, ^{201,202} Ra. ¹⁷⁰ Yb(³⁶ Ar, xnyp α), E=180-185 MeV; measured delayed E α , I α , $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ²⁰¹ Fr, ²⁰³ Ra. Gas-filled recoil separator. JOUR PRVCA 71 024306
	2005UU02	RADIOACTIVITY ^{201,202,203,204} Ra, ^{197,198,199,200} Rn, ^{193,194,195,196} Po, ^{201,202,203,204} Fr, ^{197,198,199,200} At(α) [from ¹⁴¹ Pr(^{63,65} Cu, xnyp α), ¹⁷⁰ Yb(³⁶ Ar, xnyp α), and subsequent decay]; measured E α , T _{1/2} , $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195} Bi, ^{197,199} At, ^{201,203} Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306

A=200

²⁰⁰ Pt	2005CA02	RADIOACTIVITY ¹⁸⁸ Ta, ¹⁹⁰ W, ^{192,193} Re, ¹⁹⁵ Os, ^{197,198} Ir, ^{200,201,202} Pt, ²⁰³ Au(IT) [from Be(²⁰⁸ Pb, X)]; measured E γ , I γ , $\gamma\gamma$ -coin, T _{1/2} . ¹⁸⁸ Ta, ¹⁹⁰ W, ^{192,193} Re, ¹⁹⁵ Os, ^{197,198} Ir, ^{200,201,202} Pt, ²⁰³ Au deduced transitions. ¹⁹⁰ W, ^{200,201,202} Pt deduced levels, J, π . ^{174,175} Er, ¹⁸⁵ Hf, ^{191,194} Re, ¹⁹⁹ Ir(IT) [from Be(²⁰⁸ Pb, X)]; measured E γ , I γ . JOUR ZAANE 23 201
²⁰⁰ Bi	2004KE15	NUCLEAR REACTIONS ^{1,2} H, Ti(²⁰⁸ Pb, X) ¹⁹³ Bi / ¹⁹⁴ Bi / ¹⁹⁵ Bi / ¹⁹⁶ Bi / ¹⁹⁷ Bi / ¹⁹⁸ Bi / ¹⁹⁹ Bi / ²⁰⁰ Bi / ²⁰¹ Bi / ²⁰² Bi / ²⁰³ Bi / ²⁰⁴ Bi / ²⁰⁵ Bi / ²⁰⁶ Bi / ²⁰⁷ Bi / ²⁰⁸ Bi, E=1 GeV / nucleon; measured charge-pickup σ , velocity distributions; deduced reaction mechanism features. Comparison with model predictions and previous results. JOUR PRVCA 70 064608
²⁰⁰ Po	2002DU22	RADIOACTIVITY ^{197,197m,198,199m,200,201m} Po(α); ^{172,173} Os(α) [from ¹⁵⁶ Dy(²² Ne, xn)]; ^{183,184,185} Hg(α) [from ¹⁶⁸ Yb(²² Ne, xn)]; measured E α , T _{1/2} . JOUR NIMAE 479 631

A=200 (continued)

²⁰⁰ At	2005UU02	RADIOACTIVITY ^{201,202,203,204} Ra, ^{197,198,199,200} Rn, ^{193,194,195,196} Po, ^{201,202,203,204} Fr, ^{197,198,199,200} At(α) [from ¹⁴¹ Pr(^{63,65} Cu, xnypz α), ¹⁷⁰ Yb(³⁶ Ar, xnypz α), and subsequent decay]; measured E α , T _{1/2} , $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195} Bi, ^{197,199} At, ^{201,203} Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306
²⁰⁰ Rn	2005UU02	NUCLEAR REACTIONS ¹⁴¹ Pr(⁶⁵ Cu, xnypz α), E=283-293 MeV; measured delayed E α , I α , $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ^{199,200,201} Rn, ^{202,203,204} Fr, ^{203,204} Ra. ¹⁴¹ Pr(⁶³ Cu, xnypz α), E=278-288 MeV; measured delayed E α , I α , $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ^{198,199,200,201,202} Rn, ^{201,202} Fr, ^{201,202} Ra. ¹⁷⁰ Yb(³⁶ Ar, xnypz α), E=180-185 MeV; measured delayed E α , I α , $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ²⁰¹ Fr, ²⁰³ Ra. Gas-filled recoil separator. JOUR PRVCA 71 024306
	2005UU02	RADIOACTIVITY ^{201,202,203,204} Ra, ^{197,198,199,200} Rn, ^{193,194,195,196} Po, ^{201,202,203,204} Fr, ^{197,198,199,200} At(α) [from ¹⁴¹ Pr(^{63,65} Cu, xnypz α), ¹⁷⁰ Yb(³⁶ Ar, xnypz α), and subsequent decay]; measured E α , T _{1/2} , $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195} Bi, ^{197,199} At, ^{201,203} Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306
²⁰⁰ Fr	2005DE01	RADIOACTIVITY ^{200,201,203,205} Fr, ^{196,197,199,201} At, ¹⁹³ Bi(α) [from Th(p, X) and subsequent decay]; measured E α , T _{1/2} . ²⁰¹ Fr, ¹⁹⁷ At, ¹⁹³ Bi, ¹⁸⁹ Tl deduced levels, J, π . JOUR ZAANE 23 243

A=201

²⁰¹ Pt	2005CA02	RADIOACTIVITY ¹⁸⁸ Ta, ¹⁹⁰ W, ^{192,193} Re, ¹⁹⁵ Os, ^{197,198} Ir, ^{200,201,202} Pt, ²⁰³ Au(IT) [from Be(²⁰⁸ Pb, X)]; measured E γ , I γ , $\gamma\gamma$ -coin, T _{1/2} . ¹⁸⁸ Ta, ¹⁹⁰ W, ^{192,193} Re, ¹⁹⁵ Os, ^{197,198} Ir, ^{200,201,202} Pt, ²⁰³ Au deduced transitions. ¹⁹⁰ W, ^{200,201,202} Pt deduced levels, J, π . ^{174,175} Er, ¹⁸⁵ Hf, ^{191,194} Re, ¹⁹⁹ Ir(IT) [from Be(²⁰⁸ Pb, X)]; measured E γ , I γ . JOUR ZAANE 23 201
²⁰¹ Bi	2004ADZW	NUCLEAR REACTIONS ²⁰⁹ Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³² Th(n, γ), ¹⁹⁷ Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ¹¹⁵ In(n, 5n), (n, 6n), (n, 7n), ⁵⁹ Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, γ), (n, p), (n, 6n2p), E=spectrum; measured E γ , I γ ; deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam
	2004KE15	NUCLEAR REACTIONS ^{1,2} H, Ti(²⁰⁸ Pb, X) ¹⁹³ Bi / ¹⁹⁴ Bi / ¹⁹⁵ Bi / ¹⁹⁶ Bi / ¹⁹⁷ Bi / ¹⁹⁸ Bi / ¹⁹⁹ Bi / ²⁰⁰ Bi / ²⁰¹ Bi / ²⁰² Bi / ²⁰³ Bi / ²⁰⁴ Bi / ²⁰⁵ Bi / ²⁰⁶ Bi / ²⁰⁷ Bi / ²⁰⁸ Bi, E=1 GeV / nucleon; measured charge-pickup σ , velocity distributions; deduced reaction mechanism features. Comparison with model predictions and previous results. JOUR PRVCA 70 064608

A=201 (*continued*)

	2005AD01	NUCLEAR REACTIONS $^{209}\text{Bi}(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $(\text{n}, 9\text{n})$, $^{232}\text{Th}(\text{n}, \gamma)$, $^{197}\text{Au}(\text{n}, 2\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, (n, γ) , $^{59}\text{Co}(\text{n}, 2\text{n})$, $(\text{n}, 3\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, (n, p) , $(\text{n}, 6\text{n}2\text{p})$, $^{115}\text{In}(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, E=spectrum; measured $E\gamma$, $I\gamma$; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61
^{201}Po	2002DU22	RADIOACTIVITY $^{197,197\text{m},198,199\text{m},200,201\text{m}}\text{Po}(\alpha)$; $^{172,173}\text{Os}(\alpha)$ [from $^{156}\text{Dy}(^{22}\text{Ne}, \text{xn})$]; $^{183,184,185}\text{Hg}(\alpha)$ [from $^{168}\text{Yb}(^{22}\text{Ne}, \text{xn})$]; measured $E\alpha$, $T_{1/2}$. JOUR NIMAE 479 631
^{201}At	2005DE01	RADIOACTIVITY $^{200,201,203,205}\text{Fr}$, $^{196,197,199,201}\text{At}$, $^{193}\text{Bi}(\alpha)$ [from $\text{Th}(\text{p}, \text{X})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. ^{201}Fr , ^{197}At , ^{193}Bi , ^{189}Tl deduced levels, J , π . JOUR ZAANE 23 243
^{201}Rn	2005UU02	NUCLEAR REACTIONS $^{141}\text{Pr}(^{65}\text{Cu}, \text{xnypz}\alpha)$, $E=283\text{--}293$ MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha\text{--}$, (recoil) $\alpha\text{--}$ coin; deduced evidence for $^{199,200,201}\text{Rn}$, $^{202,203,204}\text{Fr}$, $^{203,204}\text{Ra}$. $^{141}\text{Pr}(^{63}\text{Cu}, \text{xnypz}\alpha)$, $E=278\text{--}288$ MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha\text{--}$, (recoil) $\alpha\text{--}$ coin; deduced evidence for $^{198,199,200,201,202}\text{Rn}$, $^{201,202}\text{Fr}$, $^{201,202}\text{Ra}$. $^{170}\text{Yb}(^{36}\text{Ar}, \text{xnypz}\alpha)$, $E=180\text{--}185$ MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha\text{--}$, (recoil) $\alpha\text{--}$ coin; deduced evidence for ^{201}Fr , ^{203}Ra . Gas-filled recoil separator. JOUR PRVCA 71 024306
^{201}Fr	2005DE01	RADIOACTIVITY $^{200,201,203,205}\text{Fr}$, $^{196,197,199,201}\text{At}$, $^{193}\text{Bi}(\alpha)$ [from $\text{Th}(\text{p}, \text{X})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. ^{201}Fr , ^{197}At , ^{193}Bi , ^{189}Tl deduced levels, J , π . JOUR ZAANE 23 243
	2005UU02	NUCLEAR REACTIONS $^{141}\text{Pr}(^{65}\text{Cu}, \text{xnypz}\alpha)$, $E=283\text{--}293$ MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha\text{--}$, (recoil) $\alpha\text{--}$ coin; deduced evidence for $^{199,200,201}\text{Rn}$, $^{202,203,204}\text{Fr}$, $^{203,204}\text{Ra}$. $^{141}\text{Pr}(^{63}\text{Cu}, \text{xnypz}\alpha)$, $E=278\text{--}288$ MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha\text{--}$, (recoil) $\alpha\text{--}$ coin; deduced evidence for $^{198,199,200,201,202}\text{Rn}$, $^{201,202}\text{Fr}$, $^{201,202}\text{Ra}$. $^{170}\text{Yb}(^{36}\text{Ar}, \text{xnypz}\alpha)$, $E=180\text{--}185$ MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha\text{--}$, (recoil) $\alpha\text{--}$ coin; deduced evidence for ^{201}Fr , ^{203}Ra . Gas-filled recoil separator. JOUR PRVCA 71 024306
	2005UU02	RADIOACTIVITY $^{201,202,203,204}\text{Ra}$, $^{197,198,199,200}\text{Rn}$, $^{193,194,195,196}\text{Po}$, $^{201,202,203,204}\text{Fr}$, $^{197,198,199,200}\text{At}(\alpha)$ [from $^{141}\text{Pr}(^{63,65}\text{Cu}, \text{xnypz}\alpha)$, $^{170}\text{Yb}(^{36}\text{Ar}, \text{xnypz}\alpha)$, and subsequent decay]; measured $E\alpha$, $T_{1/2}$, $\alpha\alpha\text{--}$ coin for ground and metastable state decay. $^{193,195}\text{Bi}$, $^{197,199}\text{At}$, $^{201,203}\text{Fr}$ deduced levels, J , π . Comparisons with previous results. JOUR PRVCA 71 024306
^{201}Ra	2005UU02	NUCLEAR REACTIONS $^{141}\text{Pr}(^{65}\text{Cu}, \text{xnypz}\alpha)$, $E=283\text{--}293$ MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha\text{--}$, (recoil) $\alpha\text{--}$ coin; deduced evidence for $^{199,200,201}\text{Rn}$, $^{202,203,204}\text{Fr}$, $^{203,204}\text{Ra}$. $^{141}\text{Pr}(^{63}\text{Cu}, \text{xnypz}\alpha)$, $E=278\text{--}288$ MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha\text{--}$, (recoil) $\alpha\text{--}$ coin; deduced evidence for $^{198,199,200,201,202}\text{Rn}$, $^{201,202}\text{Fr}$, $^{201,202}\text{Ra}$. $^{170}\text{Yb}(^{36}\text{Ar}, \text{xnypz}\alpha)$, $E=180\text{--}185$ MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha\text{--}$, (recoil) $\alpha\text{--}$ coin; deduced evidence for ^{201}Fr , ^{203}Ra . Gas-filled recoil separator. JOUR PRVCA 71 024306

A=201 (continued)

- 2005UU02 RADIOACTIVITY ^{201,202,203,204}Ra, ^{197,198,199,200}Rn, ^{193,194,195,196}Po, ^{201,202,203,204}Fr, ^{197,198,199,200}At(α) [from ¹⁴¹Pr(^{63,65}Cu, xnypz α), ¹⁷⁰Yb(³⁶Ar, xnypz α), and subsequent decay]; measured E α , T_{1/2}, $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195}Bi, ^{197,199}At, ^{201,203}Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306

A=202

- ²⁰²Pt 2005CA02 RADIOACTIVITY ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au(IT) [from Be(²⁰⁸Pb, X)]; measured E γ , I γ , $\gamma\gamma$ -coin, T_{1/2}. ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au deduced transitions. ¹⁹⁰W, ^{200,201,202}Pt deduced levels, J, π . ^{174,175}Er, ¹⁸⁵Hf, ^{191,194}Re, ¹⁹⁹Ir(IT) [from Be(²⁰⁸Pb, X)]; measured E γ , I γ . JOUR ZAANE 23 201
- ²⁰²Bi 2004KE15 NUCLEAR REACTIONS ^{1,2}H, Ti(²⁰⁸Pb, X)¹⁹³Bi / ¹⁹⁴Bi / ¹⁹⁵Bi / ¹⁹⁶Bi / ¹⁹⁷Bi / ¹⁹⁸Bi / ¹⁹⁹Bi / ²⁰⁰Bi / ²⁰¹Bi / ²⁰²Bi / ²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi / ²⁰⁷Bi / ²⁰⁸Bi, E=1 GeV / nucleon; measured charge-pickup σ , velocity distributions; deduced reaction mechanism features. Comparison with model predictions and previous results. JOUR PRVCA 70 064608
- ²⁰²Rn 2005UU02 NUCLEAR REACTIONS ¹⁴¹Pr(⁶⁵Cu, xnypz α), E=283-293 MeV; measured delayed E α , I α , $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ^{199,200,201}Rn, ^{202,203,204}Fr, ^{203,204}Ra. ¹⁴¹Pr(⁶³Cu, xnypz α), E=278-288 MeV; measured delayed E α , I α , $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ^{198,199,200,201,202}Rn, ^{201,202}Fr, ^{201,202}Ra. ¹⁷⁰Yb(³⁶Ar, xnypz α), E=180-185 MeV; measured delayed E α , I α , $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ²⁰¹Fr, ²⁰³Ra. Gas-filled recoil separator. JOUR PRVCA 71 024306
- ²⁰²Fr 2005UU02 NUCLEAR REACTIONS ¹⁴¹Pr(⁶⁵Cu, xnypz α), E=283-293 MeV; measured delayed E α , I α , $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ^{199,200,201}Rn, ^{202,203,204}Fr, ^{203,204}Ra. ¹⁴¹Pr(⁶³Cu, xnypz α), E=278-288 MeV; measured delayed E α , I α , $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ^{198,199,200,201,202}Rn, ^{201,202}Fr, ^{201,202}Ra. ¹⁷⁰Yb(³⁶Ar, xnypz α), E=180-185 MeV; measured delayed E α , I α , $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ²⁰¹Fr, ²⁰³Ra. Gas-filled recoil separator. JOUR PRVCA 71 024306
- 2005UU02 RADIOACTIVITY ^{201,202,203,204}Ra, ^{197,198,199,200}Rn, ^{193,194,195,196}Po, ^{201,202,203,204}Fr, ^{197,198,199,200}At(α) [from ¹⁴¹Pr(^{63,65}Cu, xnypz α), ¹⁷⁰Yb(³⁶Ar, xnypz α), and subsequent decay]; measured E α , T_{1/2}, $\alpha\alpha$ -coin for ground and metastable state decay. ^{193,195}Bi, ^{197,199}At, ^{201,203}Fr deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306

A=202 (continued)

- ²⁰²Ra 2005UU02 NUCLEAR REACTIONS ¹⁴¹Pr(⁶⁵Cu, xnypzα), E=283-293 MeV; measured delayed Eα, Iα, αα-, (recoil)α-coin; deduced evidence for ^{199,200,201}Rn, ^{202,203,204}Fr, ^{203,204}Ra. ¹⁴¹Pr(⁶³Cu, xnypzα), E=278-288 MeV; measured delayed Eα, Iα, αα-, (recoil)α-coin; deduced evidence for ^{198,199,200,201,202}Rn, ^{201,202}Fr, ^{201,202}Ra. ¹⁷⁰Yb(³⁶Ar, xnypzα), E=180-185 MeV; measured delayed Eα, Iα, αα-, (recoil)α-coin; deduced evidence for ²⁰¹Fr, ²⁰³Ra. Gas-filled recoil separator. JOUR PRVCA 71 024306
- 2005UU02 RADIOACTIVITY ^{201,202,203,204}Ra, ^{197,198,199,200}Rn, ^{193,194,195,196}Po, ^{201,202,203,204}Fr, ^{197,198,199,200}At(α) [from ¹⁴¹Pr(^{63,65}Cu, xnypzα), ¹⁷⁰Yb(³⁶Ar, xnypzα), and subsequent decay]; measured Eα, T_{1/2}, αα-coin for ground and metastable state decay. ^{193,195}Bi, ^{197,199}At, ^{201,203}Fr deduced levels, J, π. Comparisons with previous results. JOUR PRVCA 71 024306

A=203

- ²⁰³Au 2005CA02 RADIOACTIVITY ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au(IT) [from Be(²⁰⁸Pb, X)]; measured Eγ, Iγ, γγ-coin, T_{1/2}. ¹⁸⁸Ta, ¹⁹⁰W, ^{192,193}Re, ¹⁹⁵Os, ^{197,198}Ir, ^{200,201,202}Pt, ²⁰³Au deduced transitions. ¹⁹⁰W, ^{200,201,202}Pt deduced levels, J, π. ^{174,175}Er, ¹⁸⁵Hf, ^{191,194}Re, ¹⁹⁹Ir(IT) [from Be(²⁰⁸Pb, X)]; measured Eγ, Iγ. JOUR ZAANE 23 201
- ²⁰³Tl 2004MB03 NUCLEAR MOMENTS ^{113,115}In, ^{153,155}Eu, ^{185,187}Re, ^{203,205}Tl, ^{209,211}Fr; measured hfs; deduced hyperfine magnetic anomaly, relative radii. Laser resonance fluorescence. JOUR BRSPPE 68 157
- ²⁰³Bi 2004ADZW NUCLEAR REACTIONS ²⁰⁹Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³²Th(n, γ), ¹⁹⁷Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ¹¹⁵In(n, 5n), (n, 6n), (n, 7n), ⁵⁹Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, γ), (n, p), (n, 6n2p), E=spectrum; measured Eγ, Iγ; deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam
- 2004KE15 NUCLEAR REACTIONS ^{1,2}H, Ti(²⁰⁸Pb, X)¹⁹³Bi / ¹⁹⁴Bi / ¹⁹⁵Bi / ¹⁹⁶Bi / ¹⁹⁷Bi / ¹⁹⁸Bi / ¹⁹⁹Bi / ²⁰⁰Bi / ²⁰¹Bi / ²⁰²Bi / ²⁰³Bi / ²⁰⁴Bi / ²⁰⁵Bi / ²⁰⁶Bi / ²⁰⁷Bi / ²⁰⁸Bi, E=1 GeV / nucleon; measured charge-pickup σ, velocity distributions; deduced reaction mechanism features. Comparison with model predictions and previous results. JOUR PRVCA 70 064608
- 2005AD01 NUCLEAR REACTIONS ²⁰⁹Bi(n, 4n), (n, 5n), (n, 6n), (n, 7n), (n, 9n), ²³²Th(n, γ), ¹⁹⁷Au(n, 2n), (n, 4n), (n, 6n), (n, 7n), (n, γ), ⁵⁹Co(n, 2n), (n, 3n), (n, 4n), (n, 5n), (n, p), (n, 6n2p), ¹¹⁵In(n, 5n), (n, 6n), (n, 7n), E=spectrum; measured Eγ, Iγ; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61
- ²⁰³Fr 2005DE01 RADIOACTIVITY ^{200,201,203,205}Fr, ^{196,197,199,201}At, ¹⁹³Bi(α) [from Th(p, X) and subsequent decay]; measured Eα, T_{1/2}. ²⁰¹Fr, ¹⁹⁷At, ¹⁹³Bi, ¹⁸⁹Tl deduced levels, J, π. JOUR ZAANE 23 243

A=203 (continued)

- 2005UU02 NUCLEAR REACTIONS $^{141}\text{Pr}(^{65}\text{Cu}, \text{xnpz}\alpha)$, E=283-293 MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for $^{199,200,201}\text{Rn}$, $^{202,203,204}\text{Fr}$, $^{203,204}\text{Ra}$. $^{141}\text{Pr}(^{63}\text{Cu}, \text{xnpz}\alpha)$, E=278-288 MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for $^{198,199,200,201,202}\text{Rn}$, $^{201,202}\text{Fr}$, $^{201,202}\text{Ra}$. $^{170}\text{Yb}(^{36}\text{Ar}, \text{xnpz}\alpha)$, E=180-185 MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ^{201}Fr , ^{203}Ra . Gas-filled recoil separator. JOUR PRVCA 71 024306
- 2005UU02 RADIOACTIVITY $^{201,202,203,204}\text{Ra}$, $^{197,198,199,200}\text{Rn}$, $^{193,194,195,196}\text{Po}$, $^{201,202,203,204}\text{Fr}$, $^{197,198,199,200}\text{At}(\alpha)$ [from $^{141}\text{Pr}(^{63,65}\text{Cu}, \text{xnpz}\alpha)$, $^{170}\text{Yb}(^{36}\text{Ar}, \text{xnpz}\alpha)$, and subsequent decay]; measured $E\alpha$, $T_{1/2}$, $\alpha\alpha$ -coin for ground and metastable state decay. $^{193,195}\text{Bi}$, $^{197,199}\text{At}$, $^{201,203}\text{Fr}$ deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306
- ^{203}Ra 2005UU02 NUCLEAR REACTIONS $^{141}\text{Pr}(^{65}\text{Cu}, \text{xnpz}\alpha)$, E=283-293 MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for $^{199,200,201}\text{Rn}$, $^{202,203,204}\text{Fr}$, $^{203,204}\text{Ra}$. $^{141}\text{Pr}(^{63}\text{Cu}, \text{xnpz}\alpha)$, E=278-288 MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for $^{198,199,200,201,202}\text{Rn}$, $^{201,202}\text{Fr}$, $^{201,202}\text{Ra}$. $^{170}\text{Yb}(^{36}\text{Ar}, \text{xnpz}\alpha)$, E=180-185 MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ^{201}Fr , ^{203}Ra . Gas-filled recoil separator. JOUR PRVCA 71 024306
- 2005UU02 RADIOACTIVITY $^{201,202,203,204}\text{Ra}$, $^{197,198,199,200}\text{Rn}$, $^{193,194,195,196}\text{Po}$, $^{201,202,203,204}\text{Fr}$, $^{197,198,199,200}\text{At}(\alpha)$ [from $^{141}\text{Pr}(^{63,65}\text{Cu}, \text{xnpz}\alpha)$, $^{170}\text{Yb}(^{36}\text{Ar}, \text{xnpz}\alpha)$, and subsequent decay]; measured $E\alpha$, $T_{1/2}$, $\alpha\alpha$ -coin for ground and metastable state decay. $^{193,195}\text{Bi}$, $^{197,199}\text{At}$, $^{201,203}\text{Fr}$ deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306

A=204

- ^{204}Bi 2004ADZW NUCLEAR REACTIONS $^{209}\text{Bi}(n, 4n)$, $(n, 5n)$, $(n, 6n)$, $(n, 7n)$, $(n, 9n)$, $^{232}\text{Th}(n, \gamma)$, $^{197}\text{Au}(n, 2n)$, $(n, 4n)$, $(n, 6n)$, $(n, 7n)$, (n, γ) , $^{115}\text{In}(n, 5n)$, $(n, 6n)$, $(n, 7n)$, $^{59}\text{Co}(n, 2n)$, $(n, 3n)$, $(n, 4n)$, $(n, 5n)$, (n, γ) , (n, p) , $(n, 6n2p)$, E=spectrum; measured $E\gamma$, $I\gamma$; deduced reaction rates. $\text{Pb}(p, nX)$, E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam
- 2004KE15 NUCLEAR REACTIONS ^1H , $\text{Ti}(^{208}\text{Pb}, X)^{193}\text{Bi} / ^{194}\text{Bi} / ^{195}\text{Bi} / ^{196}\text{Bi} / ^{197}\text{Bi} / ^{198}\text{Bi} / ^{199}\text{Bi} / ^{200}\text{Bi} / ^{201}\text{Bi} / ^{202}\text{Bi} / ^{203}\text{Bi} / ^{204}\text{Bi} / ^{205}\text{Bi} / ^{206}\text{Bi} / ^{207}\text{Bi} / ^{208}\text{Bi}$, E=1 GeV / nucleon; measured charge-pickup σ , velocity distributions; deduced reaction mechanism features. Comparison with model predictions and previous results. JOUR PRVCA 70 064608

A=204 (continued)

- 2005AD01 NUCLEAR REACTIONS $^{209}\text{Bi}(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $(\text{n}, 9\text{n})$, $^{232}\text{Th}(\text{n}, \gamma)$, $^{197}\text{Au}(\text{n}, 2\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, (n, γ) , $^{59}\text{Co}(\text{n}, 2\text{n})$, $(\text{n}, 3\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, (n, p) , $(\text{n}, 6\text{n}2\text{p})$, $^{115}\text{In}(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, E=spectrum; measured $E\gamma$, $I\gamma$; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61
- ^{204}Fr 2005UU02 NUCLEAR REACTIONS $^{141}\text{Pr}(^{65}\text{Cu}, \text{xnp}\alpha)$, E=283-293 MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for $^{199,200,201}\text{Rn}$, $^{202,203,204}\text{Fr}$, $^{203,204}\text{Ra}$. $^{141}\text{Pr}(^{63}\text{Cu}, \text{xnp}\alpha)$, E=278-288 MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for $^{198,199,200,201,202}\text{Rn}$, $^{201,202}\text{Fr}$, $^{201,202}\text{Ra}$. $^{170}\text{Yb}(^{36}\text{Ar}, \text{xnp}\alpha)$, E=180-185 MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ^{201}Fr , ^{203}Ra . Gas-filled recoil separator. JOUR PRVCA 71 024306
- 2005UU02 RADIOACTIVITY $^{201,202,203,204}\text{Ra}$, $^{197,198,199,200}\text{Rn}$, $^{193,194,195,196}\text{Po}$, $^{201,202,203,204}\text{Fr}$, $^{197,198,199,200}\text{At}(\alpha)$ [from $^{141}\text{Pr}(^{63,65}\text{Cu}, \text{xnp}\alpha)$, $^{170}\text{Yb}(^{36}\text{Ar}, \text{xnp}\alpha)$, and subsequent decay]; measured $E\alpha$, $T_{1/2}$, $\alpha\alpha$ -coin for ground and metastable state decay. $^{193,195}\text{Bi}$, $^{197,199}\text{At}$, $^{201,203}\text{Fr}$ deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306
- ^{204}Ra 2005UU02 NUCLEAR REACTIONS $^{141}\text{Pr}(^{65}\text{Cu}, \text{xnp}\alpha)$, E=283-293 MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for $^{199,200,201}\text{Rn}$, $^{202,203,204}\text{Fr}$, $^{203,204}\text{Ra}$. $^{141}\text{Pr}(^{63}\text{Cu}, \text{xnp}\alpha)$, E=278-288 MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for $^{198,199,200,201,202}\text{Rn}$, $^{201,202}\text{Fr}$, $^{201,202}\text{Ra}$. $^{170}\text{Yb}(^{36}\text{Ar}, \text{xnp}\alpha)$, E=180-185 MeV; measured delayed $E\alpha$, $I\alpha$, $\alpha\alpha$ -, (recoil) α -coin; deduced evidence for ^{201}Fr , ^{203}Ra . Gas-filled recoil separator. JOUR PRVCA 71 024306
- 2005UU02 RADIOACTIVITY $^{201,202,203,204}\text{Ra}$, $^{197,198,199,200}\text{Rn}$, $^{193,194,195,196}\text{Po}$, $^{201,202,203,204}\text{Fr}$, $^{197,198,199,200}\text{At}(\alpha)$ [from $^{141}\text{Pr}(^{63,65}\text{Cu}, \text{xnp}\alpha)$, $^{170}\text{Yb}(^{36}\text{Ar}, \text{xnp}\alpha)$, and subsequent decay]; measured $E\alpha$, $T_{1/2}$, $\alpha\alpha$ -coin for ground and metastable state decay. $^{193,195}\text{Bi}$, $^{197,199}\text{At}$, $^{201,203}\text{Fr}$ deduced levels, J, π . Comparisons with previous results. JOUR PRVCA 71 024306

A=205

- ^{205}Tl 2004MB03 NUCLEAR MOMENTS $^{113,115}\text{In}$, $^{153,155}\text{Eu}$, $^{185,187}\text{Re}$, $^{203,205}\text{Tl}$, $^{209,211}\text{Fr}$; measured hfs; deduced hyperfine magnetic anomaly, relative radii. Laser resonance fluorescence. JOUR BRSPE 68 157
- ^{205}Bi 2004ADZW NUCLEAR REACTIONS $^{209}\text{Bi}(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $(\text{n}, 9\text{n})$, $^{232}\text{Th}(\text{n}, \gamma)$, $^{197}\text{Au}(\text{n}, 2\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, (n, γ) , $^{115}\text{In}(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $^{59}\text{Co}(\text{n}, 2\text{n})$, $(\text{n}, 3\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, (n, γ) , (n, p) , $(\text{n}, 6\text{n}2\text{p})$, E=spectrum; measured $E\gamma$, $I\gamma$; deduced reaction rates. Pb(p, nX), E=1 GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam

A=205 (continued)

- 2004KE15 NUCLEAR REACTIONS $^1,^2\text{H}$, $\text{Ti}(^{208}\text{Pb}, \text{X})^{193}\text{Bi} / ^{194}\text{Bi} / ^{195}\text{Bi} / ^{196}\text{Bi} / ^{197}\text{Bi} / ^{198}\text{Bi} / ^{199}\text{Bi} / ^{200}\text{Bi} / ^{201}\text{Bi} / ^{202}\text{Bi} / ^{203}\text{Bi} / ^{204}\text{Bi} / ^{205}\text{Bi} / ^{206}\text{Bi} / ^{207}\text{Bi} / ^{208}\text{Bi}$, $E=1$ GeV / nucleon; measured charge-pickup σ , velocity distributions; deduced reaction mechanism features. Comparison with model predictions and previous results. JOUR PRVCA 70 064608
- 2004MIZS NUCLEAR REACTIONS $\text{Fe}(\text{p}, \text{X})^{52}\text{Mn}$, $E < 2.6$ GeV; $\text{Pb}(\text{p}, \text{X})^{10}\text{Be}$, $E < 2.6$ GeV; $^{209}\text{Bi}(\text{p}, 4\text{np})$, $E < 2.6$ GeV; $\text{Pb}(\text{n}, \text{X})^{196}\text{Au} / ^{95}\text{Zr}$, $E \approx 70\text{-}180$ MeV; measured excitation functions. Comparison with model predictions. REPT NEA/NSC/DOC(2004)14,P28,Michel
- 2005AD01 NUCLEAR REACTIONS $^{209}\text{Bi}(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $(\text{n}, 9\text{n})$, $^{232}\text{Th}(\text{n}, \gamma)$, $^{197}\text{Au}(\text{n}, 2\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, (n, γ) , $^{59}\text{Co}(\text{n}, 2\text{n})$, $(\text{n}, 3\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, (n, p) , $(\text{n}, 6\text{n}2\text{p})$, $^{115}\text{In}(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $E=\text{spectrum}$; measured $E\gamma$, $I\gamma$; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61
- ^{205}Fr 2005DE01 RADIOACTIVITY $^{200,201,203,205}\text{Fr}$, $^{196,197,199,201}\text{At}$, $^{193}\text{Bi}(\alpha)$ [from $\text{Th}(\text{p}, \text{X})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. ^{201}Fr , ^{197}At , ^{193}Bi , ^{189}Tl deduced levels, J , π . JOUR ZAANE 23 243

A=206

- ^{206}Bi 2004ADZW NUCLEAR REACTIONS $^{209}\text{Bi}(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $(\text{n}, 9\text{n})$, $^{232}\text{Th}(\text{n}, \gamma)$, $^{197}\text{Au}(\text{n}, 2\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, (n, γ) , $^{115}\text{In}(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $^{59}\text{Co}(\text{n}, 2\text{n})$, $(\text{n}, 3\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, (n, γ) , (n, p) , $(\text{n}, 6\text{n}2\text{p})$, $E=\text{spectrum}$; measured $E\gamma$, $I\gamma$; deduced reaction rates. $\text{Pb}(\text{p}, \text{nX})$, $E=1$ GeV; deduced spallation neutron spectrum. REPT JINR-E1-2004-16,Adam
- 2004KE15 NUCLEAR REACTIONS $^1,^2\text{H}$, $\text{Ti}(^{208}\text{Pb}, \text{X})^{193}\text{Bi} / ^{194}\text{Bi} / ^{195}\text{Bi} / ^{196}\text{Bi} / ^{197}\text{Bi} / ^{198}\text{Bi} / ^{199}\text{Bi} / ^{200}\text{Bi} / ^{201}\text{Bi} / ^{202}\text{Bi} / ^{203}\text{Bi} / ^{204}\text{Bi} / ^{205}\text{Bi} / ^{206}\text{Bi} / ^{207}\text{Bi} / ^{208}\text{Bi}$, $E=1$ GeV / nucleon; measured charge-pickup σ , velocity distributions; deduced reaction mechanism features. Comparison with model predictions and previous results. JOUR PRVCA 70 064608
- 2005AD01 NUCLEAR REACTIONS $^{209}\text{Bi}(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $(\text{n}, 9\text{n})$, $^{232}\text{Th}(\text{n}, \gamma)$, $^{197}\text{Au}(\text{n}, 2\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, (n, γ) , $^{59}\text{Co}(\text{n}, 2\text{n})$, $(\text{n}, 3\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, (n, p) , $(\text{n}, 6\text{n}2\text{p})$, $^{115}\text{In}(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $E=\text{spectrum}$; measured $E\gamma$, $I\gamma$; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61
- ^{206}At 2005KU06 RADIOACTIVITY $^{210,211,212,213,214}\text{Fr}(\alpha)$ [from $^{209}\text{Bi}(^{12}\text{C}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $\alpha\gamma\text{-coin}$, $T_{1/2}$; deduced hindrance factors. $^{206,207,208,209,210}\text{At}$ deduced levels, J , π . Comparison with previous results. JOUR ZAANE 23 417

A=207

^{207}Pb	2005WA06	NUCLEAR MOMENTS ^{207}Pb ; measured hfs. Comparison with previous results and model predictions. JOUR PHSTB 71 274
^{207}Bi	2004KE15	NUCLEAR REACTIONS ^1H , $\text{Ti}(^{208}\text{Pb}, \text{X})^{193}\text{Bi}$ / ^{194}Bi / ^{195}Bi / ^{196}Bi / ^{197}Bi / ^{198}Bi / ^{199}Bi / ^{200}Bi / ^{201}Bi / ^{202}Bi / ^{203}Bi / ^{204}Bi / ^{205}Bi / ^{206}Bi / ^{207}Bi / ^{208}Bi , $E=1$ GeV / nucleon; measured charge-pickup σ , velocity distributions; deduced reaction mechanism features. Comparison with model predictions and previous results. JOUR PRVCA 70 064608
^{207}At	2005KU06	RADIOACTIVITY $^{210,211,212,213,214}\text{Fr}(\alpha)$ [from $^{209}\text{Bi}(^{12}\text{C}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $\alpha\gamma$ -coin, $T_{1/2}$; deduced hindrance factors. $^{206,207,208,209,210}\text{At}$ deduced levels, J , π . Comparison with previous results. JOUR ZAANE 23 417

A=208

^{208}Pb	2002LI68	NUCLEAR REACTIONS $^{208}\text{Pb}(^{19}\text{F}, ^{19}\text{F})$, $E=88\text{--}102$ MeV; measured $\sigma(\theta)$; deduced parameters, role of deformation in fusion reactions, threshold anomaly. JOUR JNRS 3, No 1, 27
	2005TOZZ	NUCLEAR REACTIONS $^{208}\text{Pb}(^{27}\text{P}, \text{p}^{26}\text{Si})$, $E=57$ MeV / nucleon; measured relative energy spectrum, $\sigma(E)$. ^{27}P deduced gamma decay width of first excited state. CONF Riken(Origin of Matter) Proc, P549, Togano
^{208}Bi	2004KE15	NUCLEAR REACTIONS ^1H , $\text{Ti}(^{208}\text{Pb}, \text{X})^{193}\text{Bi}$ / ^{194}Bi / ^{195}Bi / ^{196}Bi / ^{197}Bi / ^{198}Bi / ^{199}Bi / ^{200}Bi / ^{201}Bi / ^{202}Bi / ^{203}Bi / ^{204}Bi / ^{205}Bi / ^{206}Bi / ^{207}Bi / ^{208}Bi , $E=1$ GeV / nucleon; measured charge-pickup σ , velocity distributions; deduced reaction mechanism features. Comparison with model predictions and previous results. JOUR PRVCA 70 064608
^{208}At	2005KU06	RADIOACTIVITY $^{210,211,212,213,214}\text{Fr}(\alpha)$ [from $^{209}\text{Bi}(^{12}\text{C}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $\alpha\gamma$ -coin, $T_{1/2}$; deduced hindrance factors. $^{206,207,208,209,210}\text{At}$ deduced levels, J , π . Comparison with previous results. JOUR ZAANE 23 417
^{208}Fr	2005C002	NUCLEAR REACTIONS $^{197}\text{Au}(^{18}\text{O}, 4\text{n})$, $(^{18}\text{O}, 5\text{n})$, $(^{18}\text{O}, 6\text{n})$, $(^{18}\text{O}, 7\text{n})$, $E=75\text{--}130$ MeV; measured delayed $E\alpha$, excitation functions. Comparison with model predictions. JOUR PRVCA 71 014609
^{208}Ra	2005RE02	NUCLEAR REACTIONS $^{182}\text{W}(^{30}\text{Si}, 4\text{n})$, $E=151$ MeV; measured delayed $E\gamma$, $I\gamma$, (recoil) γ -coin. ^{208}Ra deduced levels, J , π , isomeric state $T_{1/2}$. $^{182,183,184,186}\text{W}(^{30}\text{Si}, \text{X})^{210}\text{Ra}$ / ^{209}Ra / ^{208}Ra / ^{209}Fr , $E=151$ MeV; measured delayed $E\gamma$, $I\gamma$, (recoil) γ -coin. ^{209}Fr , $^{209,210}\text{Ra}$ deduced transitions. Level systematics in neighboring nuclides discussed. JOUR PRVCA 71 014302

A=209

²⁰⁹ At	2005KU06	RADIOACTIVITY ^{210,211,212,213,214} Fr(α) [from ²⁰⁹ Bi(¹² C, xn) and subsequent decay]; measured E α , I α , E γ , I γ , $\alpha\gamma$ -coin, T _{1/2} ; deduced hindrance factors. ^{206,207,208,209,210} At deduced levels, J, π . Comparison with previous results. JOUR ZAANE 23 417
²⁰⁹ Fr	2004MB03	NUCLEAR MOMENTS ^{113,115} In, ^{153,155} Eu, ^{185,187} Re, ^{203,205} Tl, ^{209,211} Fr; measured hfs; deduced hyperfine magnetic anomaly, relative radii. Laser resonance fluorescence. JOUR BRSPE 68 157
	2005C002	NUCLEAR REACTIONS ¹⁹⁷ Au(¹⁸ O, 4n), (¹⁸ O, 5n), (¹⁸ O, 6n), (¹⁸ O, 7n), E=75-130 MeV; measured delayed E α , excitation functions. Comparison with model predictions. JOUR PRVCA 71 014609
	2005RE02	NUCLEAR REACTIONS ¹⁸² W(³⁰ Si, 4n), E=151 MeV; measured delayed E γ , I γ , (recoil) γ -coin. ²⁰⁸ Ra deduced levels, J, π , isomeric state T _{1/2} . ^{182,183,184,186} W(³⁰ Si, X) ²¹⁰ Ra / ²⁰⁹ Ra / ²⁰⁸ Ra / ²⁰⁹ Fr, E=151 MeV; measured delayed E γ , I γ , (recoil) γ -coin. ²⁰⁹ Fr, ^{209,210} Ra deduced transitions. Level systematics in neighboring nuclides discussed. JOUR PRVCA 71 014302
²⁰⁹ Ra	2005RE02	NUCLEAR REACTIONS ¹⁸² W(³⁰ Si, 4n), E=151 MeV; measured delayed E γ , I γ , (recoil) γ -coin. ²⁰⁸ Ra deduced levels, J, π , isomeric state T _{1/2} . ^{182,183,184,186} W(³⁰ Si, X) ²¹⁰ Ra / ²⁰⁹ Ra / ²⁰⁸ Ra / ²⁰⁹ Fr, E=151 MeV; measured delayed E γ , I γ , (recoil) γ -coin. ²⁰⁹ Fr, ^{209,210} Ra deduced transitions. Level systematics in neighboring nuclides discussed. JOUR PRVCA 71 014302

A=210

²¹⁰ Bi	2004RA29	NUCLEAR REACTIONS ²⁰⁸ Pb, ²⁰⁹ Bi(n, γ), E=spectrum; measured σ . Astrophysical implications discussed. Activation technique. JOUR PRVCA 70 065803
²¹⁰ At	2005KU06	RADIOACTIVITY ^{210,211,212,213,214} Fr(α) [from ²⁰⁹ Bi(¹² C, xn) and subsequent decay]; measured E α , I α , E γ , I γ , $\alpha\gamma$ -coin, T _{1/2} ; deduced hindrance factors. ^{206,207,208,209,210} At deduced levels, J, π . Comparison with previous results. JOUR ZAANE 23 417
²¹⁰ Fr	2005C002	NUCLEAR REACTIONS ¹⁹⁷ Au(¹⁸ O, 4n), (¹⁸ O, 5n), (¹⁸ O, 6n), (¹⁸ O, 7n), E=75-130 MeV; measured delayed E α , excitation functions. Comparison with model predictions. JOUR PRVCA 71 014609
	2005KU06	RADIOACTIVITY ^{210,211,212,213,214} Fr(α) [from ²⁰⁹ Bi(¹² C, xn) and subsequent decay]; measured E α , I α , E γ , I γ , $\alpha\gamma$ -coin, T _{1/2} ; deduced hindrance factors. ^{206,207,208,209,210} At deduced levels, J, π . Comparison with previous results. JOUR ZAANE 23 417
²¹⁰ Ra	2005RE02	NUCLEAR REACTIONS ¹⁸² W(³⁰ Si, 4n), E=151 MeV; measured delayed E γ , I γ , (recoil) γ -coin. ²⁰⁸ Ra deduced levels, J, π , isomeric state T _{1/2} . ^{182,183,184,186} W(³⁰ Si, X) ²¹⁰ Ra / ²⁰⁹ Ra / ²⁰⁸ Ra / ²⁰⁹ Fr, E=151 MeV; measured delayed E γ , I γ , (recoil) γ -coin. ²⁰⁹ Fr, ^{209,210} Ra deduced transitions. Level systematics in neighboring nuclides discussed. JOUR PRVCA 71 014302

A=211

^{211}Pb	2004LAZV	NUCLEAR REACTIONS $^{238}\text{U}(^{208}\text{Pb}, \text{X})^{211}\text{Pb}$, E=1360 MeV; measured prompt and delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{211}Pb deduced high-spin levels, J, π , configurations, isomeric states $T_{1/2}$. Gammasphere array. PREPRINT ANU-P/1637,Lane
	2005LA01	NUCLEAR REACTIONS $^{238}\text{U}(^{208}\text{Pb}, \text{X})^{211}\text{Pb}$, E=1360 MeV; measured prompt and delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{211}Pb deduced high-spin levels, J, π , configurations, isomeric states $T_{1/2}$. Gammasphere array. JOUR PYLBB 606 34
^{211}Fr	2004MB03	NUCLEAR MOMENTS $^{113,115}\text{In}$, $^{153,155}\text{Eu}$, $^{185,187}\text{Re}$, $^{203,205}\text{Tl}$, $^{209,211}\text{Fr}$; measured hfs; deduced hyperfine magnetic anomaly, relative radii. Laser resonance fluorescence. JOUR BRSPE 68 157
	2005C002	NUCLEAR REACTIONS $^{197}\text{Au}(^{18}\text{O}, 4\text{n})$, $(^{18}\text{O}, 5\text{n})$, $(^{18}\text{O}, 6\text{n})$, $(^{18}\text{O}, 7\text{n})$, E=75-130 MeV; measured delayed $E\alpha$, excitation functions. Comparison with model predictions. JOUR PRVCA 71 014609
	2005KU06	RADIOACTIVITY $^{210,211,212,213,214}\text{Fr}(\alpha)$ [from $^{209}\text{Bi}(^{12}\text{C}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $\alpha\gamma$ -coin, $T_{1/2}$; deduced hindrance factors. $^{206,207,208,209,210}\text{At}$ deduced levels, J, π . Comparison with previous results. JOUR ZAANE 23 417

A=212

^{212}Fr	2005KU06	RADIOACTIVITY $^{210,211,212,213,214}\text{Fr}(\alpha)$ [from $^{209}\text{Bi}(^{12}\text{C}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $\alpha\gamma$ -coin, $T_{1/2}$; deduced hindrance factors. $^{206,207,208,209,210}\text{At}$ deduced levels, J, π . Comparison with previous results. JOUR ZAANE 23 417
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A=213

^{213}Fr	2005KU06	RADIOACTIVITY $^{210,211,212,213,214}\text{Fr}(\alpha)$ [from $^{209}\text{Bi}(^{12}\text{C}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $\alpha\gamma$ -coin, $T_{1/2}$; deduced hindrance factors. $^{206,207,208,209,210}\text{At}$ deduced levels, J, π . Comparison with previous results. JOUR ZAANE 23 417
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A=214

^{214}Fr	2005KU06	RADIOACTIVITY $^{210,211,212,213,214}\text{Fr}(\alpha)$ [from $^{209}\text{Bi}(^{12}\text{C}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $\alpha\gamma$ -coin, $T_{1/2}$; deduced hindrance factors. $^{206,207,208,209,210}\text{At}$ deduced levels, J, π . Comparison with previous results. JOUR ZAANE 23 417
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A=215

No references found

A=216

^{216}Rn	2004KM01	NUCLEAR REACTIONS $^{198}\text{Pt}(^{18}\text{O}, \text{X})$, E=96 MeV; measured prompt and delayed E γ , I γ , $\gamma\gamma$ -coin. ^{216}Rn deduced GDR energy, width, deformation features. Hector array, comparison with model predictions. JOUR PRVCA 70 064317
^{216}Th	2002SU35	NUCLEAR REACTIONS $^{206}\text{Pb}(^{48}\text{Ca}, 2\text{n})$, $^{186}\text{W}(^{34}\text{S}, 4\text{n})$, E not given; measured yields, focal-plane position spectra in recoil separator. JOUR NIMAE 481 71

A=217

No references found

A=218

No references found

A=219

No references found

A=220

No references found

A=221

No references found

A=222

No references found

A=223

No references found

A=224

²²⁴Th 2005SE03 NUCLEAR REACTIONS ¹⁷⁶Yb(⁴⁸Ca, X), E=206, 219, 256, 259 MeV; measured E γ , I γ , (evaporation residue) γ -coin, γ -ray multiplicity and sum energy, fusion and evaporation residue σ . ²²⁴Th deduced GDR parameters. Comparison with model predictions. JOUR NUPAB 750 245

A=225

No references found

A=226

No references found

A=227

No references found

A=228

No references found

A=229

²²⁹Np 2002AS08 RADIOACTIVITY ^{235,236}Am(EC) [from ^{233,235}U(⁶Li, xn)]; measured prompt and delayed E γ , I γ , $\gamma\gamma$ -coin; deduced log ft. ^{235,236}Pu deduced levels, J, π , configurations. ^{233,234,235,236}Am, ^{237,238}Cm(α) [from ^{233,235}U, ²³⁷Np(⁶Li, xn)]; measured E α , T_{1/2}. Isotope separator. JOUR JNRS 3, No 1, 187

A=230

²³⁰Th 2005P002 RADIOACTIVITY ^{234,235,238}U(α); measured E α , I α from thick source. Comparison with model predictions. JOUR RMEAE 39 565

²³⁰Np 2002AS08 RADIOACTIVITY ^{235,236}Am(EC) [from ^{233,235}U(⁶Li, xn)]; measured prompt and delayed E γ , I γ , $\gamma\gamma$ -coin; deduced log ft. ^{235,236}Pu deduced levels, J, π , configurations. ^{233,234,235,236}Am, ^{237,238}Cm(α) [from ^{233,235}U, ²³⁷Np(⁶Li, xn)]; measured E α , T_{1/2}. Isotope separator. JOUR JNRS 3, No 1, 187

A=231

- ^{231}Th 2005P002 RADIOACTIVITY $^{234,235,238}\text{U}(\alpha)$; measured $E\alpha$, $I\alpha$ from thick source. Comparison with model predictions. JOUR RMEAE 39 565
- ^{231}Np 2002AS08 RADIOACTIVITY $^{235,236}\text{Am}(\text{EC})$ [from $^{233,235}\text{U}(^6\text{Li}, \text{xn})$]; measured prompt and delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced log ft. $^{235,236}\text{Pu}$ deduced levels, J , π , configurations. $^{233,234,235,236}\text{Am}$, $^{237,238}\text{Cm}(\alpha)$ [from $^{233,235}\text{U}$, $^{237}\text{Np}(^6\text{Li}, \text{xn})$]; measured $E\alpha$, $T_{1/2}$. Isotope separator. JOUR JNRSa 3, No 1, 187

A=232

- ^{232}Np 2002AS08 RADIOACTIVITY $^{235,236}\text{Am}(\text{EC})$ [from $^{233,235}\text{U}(^6\text{Li}, \text{xn})$]; measured prompt and delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced log ft. $^{235,236}\text{Pu}$ deduced levels, J , π , configurations. $^{233,234,235,236}\text{Am}$, $^{237,238}\text{Cm}(\alpha)$ [from $^{233,235}\text{U}$, $^{237}\text{Np}(^6\text{Li}, \text{xn})$]; measured $E\alpha$, $T_{1/2}$. Isotope separator. JOUR JNRSa 3, No 1, 187

A=233

- ^{233}Th 2004ADZW NUCLEAR REACTIONS $^{209}\text{Bi}(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $(\text{n}, 9\text{n})$, $^{232}\text{Th}(\text{n}, \gamma)$, $^{197}\text{Au}(\text{n}, 2\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, (n, γ) , $^{115}\text{In}(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $^{59}\text{Co}(\text{n}, 2\text{n})$, $(\text{n}, 3\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, (n, γ) , (n, p) , $(\text{n}, 6\text{n}2\text{p})$, $E=\text{spectrum}$; measured $E\gamma$, $I\gamma$; deduced reaction rates. $\text{Pb}(\text{p}, \text{nX})$, $E=1\text{ GeV}$; deduced spallation neutron spectrum. REPT JINR-E1-2004-16, Adam
- 2005AD01 NUCLEAR REACTIONS $^{209}\text{Bi}(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $(\text{n}, 9\text{n})$, $^{232}\text{Th}(\text{n}, \gamma)$, $^{197}\text{Au}(\text{n}, 2\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, (n, γ) , $^{59}\text{Co}(\text{n}, 2\text{n})$, $(\text{n}, 3\text{n})$, $(\text{n}, 4\text{n})$, $(\text{n}, 5\text{n})$, (n, p) , $(\text{n}, 6\text{n}2\text{p})$, $^{115}\text{In}(\text{n}, 5\text{n})$, $(\text{n}, 6\text{n})$, $(\text{n}, 7\text{n})$, $E=\text{spectrum}$; measured $E\gamma$, $I\gamma$; deduced reaction rates. Activation technique, spallation neutrons from 1 GeV proton beam, comparison with model predictions. JOUR ZAANE 23 61
- ^{233}Pu 2002AS08 RADIOACTIVITY $^{235,236}\text{Am}(\text{EC})$ [from $^{233,235}\text{U}(^6\text{Li}, \text{xn})$]; measured prompt and delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced log ft. $^{235,236}\text{Pu}$ deduced levels, J , π , configurations. $^{233,234,235,236}\text{Am}$, $^{237,238}\text{Cm}(\alpha)$ [from $^{233,235}\text{U}$, $^{237}\text{Np}(^6\text{Li}, \text{xn})$]; measured $E\alpha$, $T_{1/2}$. Isotope separator. JOUR JNRSa 3, No 1, 187
- ^{233}Am 2002AS08 RADIOACTIVITY $^{235,236}\text{Am}(\text{EC})$ [from $^{233,235}\text{U}(^6\text{Li}, \text{xn})$]; measured prompt and delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced log ft. $^{235,236}\text{Pu}$ deduced levels, J , π , configurations. $^{233,234,235,236}\text{Am}$, $^{237,238}\text{Cm}(\alpha)$ [from $^{233,235}\text{U}$, $^{237}\text{Np}(^6\text{Li}, \text{xn})$]; measured $E\alpha$, $T_{1/2}$. Isotope separator. JOUR JNRSa 3, No 1, 187

A=234

- ^{234}Th 2005P002 RADIOACTIVITY $^{234,235,238}\text{U}(\alpha)$; measured $E\alpha$, $I\alpha$ from thick source. Comparison with model predictions. JOUR RMEAE 39 565

A=234 (*continued*)

^{234}U	2005P002	RADIOACTIVITY $^{234,235,238}\text{U}(\alpha)$; measured $E\alpha$, $I\alpha$ from thick source. Comparison with model predictions. JOUR RMEAE 39 565
^{234}Pu	2002AS08	RADIOACTIVITY $^{235,236}\text{Am}(\text{EC})$ [from $^{233,235}\text{U}(^6\text{Li}, \text{xn})$]; measured prompt and delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced log ft. $^{235,236}\text{Pu}$ deduced levels, J, π , configurations. $^{233,234,235,236}\text{Am}$, $^{237,238}\text{Cm}(\alpha)$ [from $^{233,235}\text{U}$, $^{237}\text{Np}(^6\text{Li}, \text{xn})$]; measured $E\alpha$, $T_{1/2}$. Isotope separator. JOUR JNRSa 3, No 1, 187
^{234}Am	2002AS08	RADIOACTIVITY $^{235,236}\text{Am}(\text{EC})$ [from $^{233,235}\text{U}(^6\text{Li}, \text{xn})$]; measured prompt and delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced log ft. $^{235,236}\text{Pu}$ deduced levels, J, π , configurations. $^{233,234,235,236}\text{Am}$, $^{237,238}\text{Cm}(\alpha)$ [from $^{233,235}\text{U}$, $^{237}\text{Np}(^6\text{Li}, \text{xn})$]; measured $E\alpha$, $T_{1/2}$. Isotope separator. JOUR JNRSa 3, No 1, 187

A=235

^{235}U	2005P002	RADIOACTIVITY $^{234,235,238}\text{U}(\alpha)$; measured $E\alpha$, $I\alpha$ from thick source. Comparison with model predictions. JOUR RMEAE 39 565
^{235}Pu	2002AS08	RADIOACTIVITY $^{235,236}\text{Am}(\text{EC})$ [from $^{233,235}\text{U}(^6\text{Li}, \text{xn})$]; measured prompt and delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced log ft. $^{235,236}\text{Pu}$ deduced levels, J, π , configurations. $^{233,234,235,236}\text{Am}$, $^{237,238}\text{Cm}(\alpha)$ [from $^{233,235}\text{U}$, $^{237}\text{Np}(^6\text{Li}, \text{xn})$]; measured $E\alpha$, $T_{1/2}$. Isotope separator. JOUR JNRSa 3, No 1, 187
^{235}Am	2002AS08	RADIOACTIVITY $^{235,236}\text{Am}(\text{EC})$ [from $^{233,235}\text{U}(^6\text{Li}, \text{xn})$]; measured prompt and delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced log ft. $^{235,236}\text{Pu}$ deduced levels, J, π , configurations. $^{233,234,235,236}\text{Am}$, $^{237,238}\text{Cm}(\alpha)$ [from $^{233,235}\text{U}$, $^{237}\text{Np}(^6\text{Li}, \text{xn})$]; measured $E\alpha$, $T_{1/2}$. Isotope separator. JOUR JNRSa 3, No 1, 187

A=236

^{236}Pu	2002AS08	RADIOACTIVITY $^{235,236}\text{Am}(\text{EC})$ [from $^{233,235}\text{U}(^6\text{Li}, \text{xn})$]; measured prompt and delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced log ft. $^{235,236}\text{Pu}$ deduced levels, J, π , configurations. $^{233,234,235,236}\text{Am}$, $^{237,238}\text{Cm}(\alpha)$ [from $^{233,235}\text{U}$, $^{237}\text{Np}(^6\text{Li}, \text{xn})$]; measured $E\alpha$, $T_{1/2}$. Isotope separator. JOUR JNRSa 3, No 1, 187
	2005AS01	RADIOACTIVITY $^{236,236m}\text{Am}(\text{EC})$ [from $^{235}\text{U}(^6\text{Li}, 5\text{n})$]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, (X-ray) γ -coin, $T_{1/2}$; deduced log ft. ^{236}Pu deduced levels, J, π , configurations, β -feeding intensities, B(E1), B(M1). ^{236}Am deduced isomeric state J, π , configuration. JOUR ZAANE 23 395
^{236}Am	2002AS08	RADIOACTIVITY $^{235,236}\text{Am}(\text{EC})$ [from $^{233,235}\text{U}(^6\text{Li}, \text{xn})$]; measured prompt and delayed $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced log ft. $^{235,236}\text{Pu}$ deduced levels, J, π , configurations. $^{233,234,235,236}\text{Am}$, $^{237,238}\text{Cm}(\alpha)$ [from $^{233,235}\text{U}$, $^{237}\text{Np}(^6\text{Li}, \text{xn})$]; measured $E\alpha$, $T_{1/2}$. Isotope separator. JOUR JNRSa 3, No 1, 187

A=236 (*continued*)

2005AS01 RADIOACTIVITY $^{236,236m}\text{Am}(\text{EC})$ [from $^{235}\text{U}(^6\text{Li}, 5\text{n})$]; measured $\text{E}\gamma$, $\text{I}\gamma$, $\gamma\gamma$ -, (X-ray) γ -coin, $\text{T}_{1/2}$; deduced log ft. ^{236}Pu deduced levels, J, π , configurations, β -feeding intensities, B(E1), B(M1). ^{236}Am deduced isomeric state J, π , configuration. JOUR ZAANE 23 395

A=237

^{237}Cm 2002AS08 RADIOACTIVITY $^{235,236}\text{Am}(\text{EC})$ [from $^{233,235}\text{U}(^6\text{Li}, \text{xn})$]; measured prompt and delayed $\text{E}\gamma$, $\text{I}\gamma$, $\gamma\gamma$ -coin; deduced log ft. $^{235,236}\text{Pu}$ deduced levels, J, π , configurations. $^{233,234,235,236}\text{Am}$, $^{237,238}\text{Cm}(\alpha)$ [from $^{233,235}\text{U}$, $^{237}\text{Np}(^6\text{Li}, \text{xn})$]; measured $\text{E}\alpha$, $\text{T}_{1/2}$. Isotope separator. JOUR JNRSa 3, No 1, 187

A=238

^{238}U 2005P002 RADIOACTIVITY $^{234,235,238}\text{U}(\alpha)$; measured $\text{E}\alpha$, $\text{I}\alpha$ from thick source. Comparison with model predictions. JOUR RMEAE 39 565

^{238}Np 2004KRZX NUCLEAR REACTIONS $^{27}\text{Al}(\text{n}, \text{n3p})$, ^{59}Co , ^{139}La , ^{129}I , ^{197}Au , $^{237}\text{Np}(\text{n}, \gamma)$, ^{59}Co , $^{127,129}\text{I}$, ^{197}Au , $^{209}\text{Bi}(\text{n}, \text{xn})$, $^{235,238}\text{U}(\text{n}, \text{F})$, $\text{E}=\text{spectrum}$; measured yields; deduced reaction rates. $\text{Pb}(\text{p}, \text{nX})$, $\text{E}=1.5\text{ GeV}$; deduced neutron spectrum. REPT JINR-E1-2004-79, Krivopustov

^{238}Cm 2002AS08 RADIOACTIVITY $^{235,236}\text{Am}(\text{EC})$ [from $^{233,235}\text{U}(^6\text{Li}, \text{xn})$]; measured prompt and delayed $\text{E}\gamma$, $\text{I}\gamma$, $\gamma\gamma$ -coin; deduced log ft. $^{235,236}\text{Pu}$ deduced levels, J, π , configurations. $^{233,234,235,236}\text{Am}$, $^{237,238}\text{Cm}(\alpha)$ [from $^{233,235}\text{U}$, $^{237}\text{Np}(^6\text{Li}, \text{xn})$]; measured $\text{E}\alpha$, $\text{T}_{1/2}$. Isotope separator. JOUR JNRSa 3, No 1, 187

A=239

No references found

A=240

No references found

A=241

^{241}Cm 2003ASZY RADIOACTIVITY $^{241}\text{Bk}(\text{EC})$ [from $^{239}\text{Pu}(^6\text{Li}, 4\text{n})$]; measured $\text{E}\gamma$, $\text{I}\gamma$, (X-ray) γ -coin, $\text{T}_{1/2}$; deduced log ft. ^{241}Bk deduced ground-state configuration. ^{241}Cm deduced levels, J, π . REPT JAERI-TV 2002 Annual, P29, Asai

A=241 (*continued*)

²⁴¹ Bk	2003ASZY	NUCLEAR REACTIONS ²³⁹ Pu(⁶ Li, 4n), E=34-42 MeV; measured prompt and delayed E γ , I γ , (X-ray) γ -, (recoil) γ -coin; deduced evidence for ²⁴¹ Bk. Isotope separator. REPT JAERI-TV 2002 Annual,P29,Asai
	2003ASZY	RADIOACTIVITY ²⁴¹ Bk(EC) [from ²³⁹ Pu(⁶ Li, 4n)]; measured E γ , I γ , (X-ray) γ -coin, T _{1/2} ; deduced log ft. ²⁴¹ Bk deduced ground-state configuration. ²⁴¹ Cm deduced levels, J, π . REPT JAERI-TV 2002 Annual,P29,Asai

A=242

No references found

A=243

No references found

A=244

²⁴⁴ Cm	2005RE06	RADIOACTIVITY ²⁴⁴ Cm, ²⁵² Cf(SF); measured E γ , I γ ; deduced fission fragments isotopic yields. JOUR JRNCD 264 243
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A=245

No references found

A=246

No references found

A=247

No references found

A=248

No references found

A=249

^{249}Cm	2004AHZY	RADIOACTIVITY $^{253}\text{Es}(\alpha)$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. $^{249}\text{Cm}(\beta^-)$ [from $^{248}\text{Cm}(n, \gamma)$]; measured $E\gamma$, $I\gamma$. ^{249}Bk deduced transitions, proton single-particle states J, π , configurations. REPT ANL-04/22,P45,Ahmad
^{249}Bk	2002AH06	RADIOACTIVITY ^{255}Fm , $^{253}\text{Es}(\alpha)$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{251}Cf , ^{249}Bk deduced levels, J, π , single-particle states. JOUR JNRSa 3,No 1,179
	2004AHZY	RADIOACTIVITY $^{253}\text{Es}(\alpha)$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. $^{249}\text{Cm}(\beta^-)$ [from $^{248}\text{Cm}(n, \gamma)$]; measured $E\gamma$, $I\gamma$. ^{249}Bk deduced transitions, proton single-particle states J, π , configurations. REPT ANL-04/22,P45,Ahmad

A=250

No references found

A=251

^{251}Cf	2002AH06	RADIOACTIVITY ^{255}Fm , $^{253}\text{Es}(\alpha)$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{251}Cf , ^{249}Bk deduced levels, J, π , single-particle states. JOUR JNRSa 3,No 1,179
^{251}Md	2002GU33	RADIOACTIVITY ^{259}Db , $^{255}\text{Lr}(\alpha)$ [from $^{241}\text{Am}(^{22}\text{Ne}, 4n)$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. JOUR JNRSa 3,No 1,183

A=252

^{252}Cf	2004PYZZ	RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured fission fragment mass distributions, neutron multiplicity; deduced ternary decay mode. REPT JINR-E15-2004-65,Pyatkov
	2005BI02	RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured Doppler-shifted $E\gamma$, $I\gamma$, (particle) γ -, $\gamma\gamma$ -coin. $^{142,144}\text{Ba}$ levels deduced $T_{1/2}$, transition quadrupole moments. Euroball, Saphir arrays, differential Doppler shift method. JOUR PRVCA 71 011301
	2005RE06	RADIOACTIVITY ^{244}Cm , $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$; deduced fission fragments isotopic yields. JOUR JRNCD 264 243
^{252}No	2002SU35	NUCLEAR REACTIONS $^{206}\text{Pb}(^{48}\text{Ca}, 2n)$, $^{186}\text{W}(^{34}\text{S}, 4n)$, E not given; measured yields, focal-plane position spectra in recoil separator. JOUR NIMAE 481 71
	2005YE02	RADIOACTIVITY $^{252}\text{No}(\text{SF})$ [from $^{206}\text{Pb}(^{48}\text{Ca}, 2n)$]; measured fission fragments spectra, prompt neutron multiplicity. Recoil separator. JOUR NIMAE 539 441

A=253

^{253}Es	2002AH06	RADIOACTIVITY ^{255}Fm , $^{253}\text{Es}(\alpha)$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{251}Cf , ^{249}Bk deduced levels, J, π , single-particle states. JOUR JNRSa 3, No 1, 179
	2004AHZY	RADIOACTIVITY $^{253}\text{Es}(\alpha)$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. $^{249}\text{Cm}(\beta^-)$ [from $^{248}\text{Cm}(n, \gamma)$]; measured $E\gamma$, $I\gamma$. ^{249}Bk deduced transitions, proton single-particle states J, π , configurations. REPT ANL-04/22,P45,Ahmad
^{253}Fm	2004V024	RADIOACTIVITY $^{269,270}\text{Hs}$, $^{265,266}\text{Sg}$, $^{257}\text{No}(\alpha)$; $^{261,262}\text{Rf}(\text{SF})$ [from $^{248}\text{Cm}(^{26}\text{Mg}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. JOUR RAACA 92 855

A=254

^{254}No	2004KHZY	RADIOACTIVITY $^{254m}\text{No}(\text{IT})$ [from $^{208}\text{Pb}(^{48}\text{Ca}, 2n)$]; measured $E(\text{ce})$, $I(\text{ce})$ following decay of high-spin isomer. ^{254}No level deduced J, π , configuration. REPT ANL-04/22,P47,Khoo
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A=255

^{255}Fm	2002AH06	RADIOACTIVITY ^{255}Fm , $^{253}\text{Es}(\alpha)$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{251}Cf , ^{249}Bk deduced levels, J, π , single-particle states. JOUR JNRSa 3, No 1, 179
^{255}Lr	2002GU33	RADIOACTIVITY ^{259}Db , $^{255}\text{Lr}(\alpha)$ [from $^{241}\text{Am}(^{22}\text{Ne}, 4n)$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. JOUR JNRSa 3, No 1, 183

A=256

No references found

A=257

^{257}No	2004V024	RADIOACTIVITY $^{269,270}\text{Hs}$, $^{265,266}\text{Sg}$, $^{257}\text{No}(\alpha)$; $^{261,262}\text{Rf}(\text{SF})$ [from $^{248}\text{Cm}(^{26}\text{Mg}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. JOUR RAACA 92 855
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A=258

No references found

A=259

²⁵⁹ Db	2002GU33	NUCLEAR REACTIONS ²⁴¹ Am(²² Ne, 4n), E=118 MeV; measured delayed E α , $\alpha\alpha$ -coin; deduced evidence for ²⁵⁹ Db. JOUR JNRS A 3, No 1, 183
	2002GU33	RADIOACTIVITY ²⁵⁹ Db, ²⁵⁵ Lr(α) [from ²⁴¹ Am(²² Ne, 4n) and subsequent decay]; measured E α , T _{1/2} . JOUR JNRS A 3, No 1, 183

A=260

No references found

A=261

²⁶¹ Rf	2002NA37	NUCLEAR REACTIONS ²⁴⁸ Cm(¹⁸ O, 5n), E=91, 94, 99 MeV; ²⁴⁸ Cm(¹⁹ F, 5n), E=106 MeV; measured delayed E α , $\alpha\alpha$ -coin; deduced production σ . JOUR JNRS A 3, No 1, 85
	2004V024	RADIOACTIVITY ^{269,270} Hs, ^{265,266} Sg, ²⁵⁷ No(α); ^{261,262} Rf(SF) [from ²⁴⁸ Cm(²⁶ Mg, xn) and subsequent decay]; measured E α , T _{1/2} . JOUR RAACA 92 855

A=262

²⁶² Rf	2004V024	RADIOACTIVITY ^{269,270} Hs, ^{265,266} Sg, ²⁵⁷ No(α); ^{261,262} Rf(SF) [from ²⁴⁸ Cm(²⁶ Mg, xn) and subsequent decay]; measured E α , T _{1/2} . JOUR RAACA 92 855
²⁶² Db	2002NA37	NUCLEAR REACTIONS ²⁴⁸ Cm(¹⁸ O, 5n), E=91, 94, 99 MeV; ²⁴⁸ Cm(¹⁹ F, 5n), E=106 MeV; measured delayed E α , $\alpha\alpha$ -coin; deduced production σ . JOUR JNRS A 3, No 1, 85

A=263

No references found

A=264

No references found

A=265

²⁶⁵ Sg	2004V024	RADIOACTIVITY ^{269,270} Hs, ^{265,266} Sg, ²⁵⁷ No(α); ^{261,262} Rf(SF) [from ²⁴⁸ Cm(²⁶ Mg, xn) and subsequent decay]; measured E α , T _{1/2} . JOUR RAACA 92 855
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A=266

²⁶⁶Sg 2004V024 RADIOACTIVITY ^{269,270}Hs, ^{265,266}Sg, ²⁵⁷No(α); ^{261,262}Rf(SF) [from ²⁴⁸Cm(²⁶Mg, xn) and subsequent decay]; measured E α , T_{1/2}. JOUR RAACA 92 855

A=267

²⁶⁷Rf 20040G12 RADIOACTIVITY ²⁷¹Sg, ²⁷⁵Hs, ²⁷⁹Ds, ^{282,283,285}112, ^{286,287,288,289}114, ^{292,293}116(α); ²⁶⁷Rf, ²⁷¹Sg, ^{279,281}Ds, ²⁸⁴112, ²⁸⁶114(SF) [from ^{233,238}U, ²⁴²Pu, ²⁴⁸Cm(⁴⁸Ca, xn) and subsequent decay]; measured E α , T_{1/2}. Comparison with model predictions. JOUR PRVCA 70 064609

20040GZZ RADIOACTIVITY ²⁷¹Sg, ²⁷⁵Hs, ²⁷⁹Ds, ^{282,283,285}112, ^{286,287,288,289}114, ^{292,293}116(α); ²⁶⁷Rf, ²⁷¹Sg, ^{279,281}Ds, ²⁸⁴112, ²⁸⁶114(SF) [from ^{233,238}U, ²⁴²Pu, ²⁴⁸Cm(⁴⁸Ca, xn) and subsequent decay]; measured E α , T_{1/2}. Comparison with model predictions. REPT

²⁶⁷Db 20030GZY JINR-E7-2004-160,Oganessian
RADIOACTIVITY ^{287,288}115, ^{283,284}113, ^{279,280}Rg, ^{275,276}Mt, ²⁷²Bh(α) [from ²⁴³Am(⁴⁸Ca, xn) and subsequent decay]; measured E α , T_{1/2}; deduced Q α . ^{267,268}Db(SF) [from ²⁴³Am(⁴⁸Ca, xn) and subsequent decay]; measured T_{1/2}. Comparison with model predictions. REPT JINR-E7-2003-178,Oganessian

A=268

²⁶⁸Db 20030GZY RADIOACTIVITY ^{287,288}115, ^{283,284}113, ^{279,280}Rg, ^{275,276}Mt, ²⁷²Bh(α) [from ²⁴³Am(⁴⁸Ca, xn) and subsequent decay]; measured E α , T_{1/2}; deduced Q α . ^{267,268}Db(SF) [from ²⁴³Am(⁴⁸Ca, xn) and subsequent decay]; measured T_{1/2}. Comparison with model predictions. REPT JINR-E7-2003-178,Oganessian

2004DMZZ RADIOACTIVITY ²⁶⁸Db(SF) [from ²⁴³Am(⁴⁸Ca, 3n) and subsequent decay]; measured T_{1/2}. REPT JINR-E12-2004-157,Dmitriev

A=269

²⁶⁹Hs 2004V024 NUCLEAR REACTIONS ²⁴⁸Cm(²⁶Mg, xn), E=144-149 MeV; measured delayed $\alpha\alpha$ -coin; deduced evidence for ^{269,270}Hs. Radiochemical analysis. JOUR RAACA 92 855

2004V024 RADIOACTIVITY ^{269,270}Hs, ^{265,266}Sg, ²⁵⁷No(α); ^{261,262}Rf(SF) [from ²⁴⁸Cm(²⁶Mg, xn) and subsequent decay]; measured E α , T_{1/2}. JOUR RAACA 92 855

A=270

²⁷⁰Hs 2004V024 NUCLEAR REACTIONS ²⁴⁸Cm(²⁶Mg, xn), E=144-149 MeV; measured delayed $\alpha\alpha$ -coin; deduced evidence for ^{269,270}Hs. Radiochemical analysis. JOUR RAACA 92 855

A=270 (continued)

2004V024 RADIOACTIVITY $^{269,270}\text{Hs}$, $^{265,266}\text{Sg}$, $^{257}\text{No}(\alpha)$; $^{261,262}\text{Rf}(\text{SF})$ [from $^{248}\text{Cm}(^{26}\text{Mg}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. JOUR RAACA 92 855

A=271

^{271}Sg 20040G12 RADIOACTIVITY ^{271}Sg , ^{275}Hs , ^{279}Ds , $^{282,283,285}112$, $^{286,287,288,289}114$, $^{292,293}116(\alpha)$; ^{267}Rf , ^{271}Sg , $^{279,281}\text{Ds}$, $^{284}112$, $^{286}114(\text{SF})$ [from $^{233,238}\text{U}$, ^{242}Pu , $^{248}\text{Cm}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. Comparison with model predictions. JOUR PRVCA 70 064609

20040GZZ RADIOACTIVITY ^{271}Sg , ^{275}Hs , ^{279}Ds , $^{282,283,285}112$, $^{286,287,288,289}114$, $^{292,293}116(\alpha)$; ^{267}Rf , ^{271}Sg , $^{279,281}\text{Ds}$, $^{284}112$, $^{286}114(\text{SF})$ [from $^{233,238}\text{U}$, ^{242}Pu , $^{248}\text{Cm}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. Comparison with model predictions. REPT

^{271}Bh 20030GZY JINR-E7-2004-160,Oganessian
RADIOACTIVITY $^{287,288}115$, $^{283,284}113$, $^{279,280}\text{Rg}$, $^{275,276}\text{Mt}$, $^{272}\text{Bh}(\alpha)$ [from $^{243}\text{Am}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$; deduced $Q\alpha$. $^{267,268}\text{Db}(\text{SF})$ [from $^{243}\text{Am}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $T_{1/2}$. Comparison with model predictions. REPT JINR-E7-2003-178,Oganessian

A=272

^{272}Bh 20030GZY RADIOACTIVITY $^{287,288}115$, $^{283,284}113$, $^{279,280}\text{Rg}$, $^{275,276}\text{Mt}$, $^{272}\text{Bh}(\alpha)$ [from $^{243}\text{Am}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$; deduced $Q\alpha$. $^{267,268}\text{Db}(\text{SF})$ [from $^{243}\text{Am}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $T_{1/2}$. Comparison with model predictions. REPT JINR-E7-2003-178,Oganessian

A=273

No references found

A=274

No references found

A=275

^{275}Hs 20040G12 RADIOACTIVITY ^{271}Sg , ^{275}Hs , ^{279}Ds , $^{282,283,285}112$, $^{286,287,288,289}114$, $^{292,293}116(\alpha)$; ^{267}Rf , ^{271}Sg , $^{279,281}\text{Ds}$, $^{284}112$, $^{286}114(\text{SF})$ [from $^{233,238}\text{U}$, ^{242}Pu , $^{248}\text{Cm}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. Comparison with model predictions. JOUR PRVCA 70 064609

A=275 (continued)

- 20040GZZ RADIOACTIVITY ^{271}Sg , ^{275}Hs , ^{279}Ds , $^{282,283,285}112$, $^{286,287,288,289}114$, $^{292,293}116(\alpha)$; ^{267}Rf , ^{271}Sg , $^{279,281}\text{Ds}$, $^{284}112$, $^{286}114(\text{SF})$ [from $^{233,238}\text{U}$, ^{242}Pu , $^{248}\text{Cm}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian
- ^{275}Mt 20030GZY RADIOACTIVITY $^{287,288}115$, $^{283,284}113$, $^{279,280}\text{Rg}$, $^{275,276}\text{Mt}$, $^{272}\text{Bh}(\alpha)$ [from $^{243}\text{Am}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$; deduced $Q\alpha$. $^{267,268}\text{Db}(\text{SF})$ [from $^{243}\text{Am}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $T_{1/2}$. Comparison with model predictions. REPT JINR-E7-2003-178,Oganessian

A=276

- ^{276}Mt 20030GZY RADIOACTIVITY $^{287,288}115$, $^{283,284}113$, $^{279,280}\text{Rg}$, $^{275,276}\text{Mt}$, $^{272}\text{Bh}(\alpha)$ [from $^{243}\text{Am}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$; deduced $Q\alpha$. $^{267,268}\text{Db}(\text{SF})$ [from $^{243}\text{Am}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $T_{1/2}$. Comparison with model predictions. REPT JINR-E7-2003-178,Oganessian

A=277

No references found

A=278

- ^{278}Ds 20040G12 RADIOACTIVITY ^{271}Sg , ^{275}Hs , ^{279}Ds , $^{282,283,285}112$, $^{286,287,288,289}114$, $^{292,293}116(\alpha)$; ^{267}Rf , ^{271}Sg , $^{279,281}\text{Ds}$, $^{284}112$, $^{286}114(\text{SF})$ [from $^{233,238}\text{U}$, ^{242}Pu , $^{248}\text{Cm}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. Comparison with model predictions. JOUR PRVCA 70 064609
- 20040GZZ RADIOACTIVITY ^{271}Sg , ^{275}Hs , ^{279}Ds , $^{282,283,285}112$, $^{286,287,288,289}114$, $^{292,293}116(\alpha)$; ^{267}Rf , ^{271}Sg , $^{279,281}\text{Ds}$, $^{284}112$, $^{286}114(\text{SF})$ [from $^{233,238}\text{U}$, ^{242}Pu , $^{248}\text{Cm}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian

A=279

- ^{279}Ds 20040G12 RADIOACTIVITY ^{271}Sg , ^{275}Hs , ^{279}Ds , $^{282,283,285}112$, $^{286,287,288,289}114$, $^{292,293}116(\alpha)$; ^{267}Rf , ^{271}Sg , $^{279,281}\text{Ds}$, $^{284}112$, $^{286}114(\text{SF})$ [from $^{233,238}\text{U}$, ^{242}Pu , $^{248}\text{Cm}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. Comparison with model predictions. JOUR PRVCA 70 064609

A=279 (continued)

	20040GZZ	RADIOACTIVITY ^{271}Sg , ^{275}Hs , ^{279}Ds , $^{282,283,285}112$, $^{286,287,288,289}114$, $^{292,293}116(\alpha)$; ^{267}Rf , ^{271}Sg , $^{279,281}\text{Ds}$, $^{284}112$, $^{286}114(\text{SF})$ [from $^{233,238}\text{U}$, ^{242}Pu , $^{248}\text{Cm}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian
^{279}Rg	20030GZY	RADIOACTIVITY $^{287,288}115$, $^{283,284}113$, $^{279,280}\text{Rg}$, $^{275,276}\text{Mt}$, $^{272}\text{Bh}(\alpha)$ [from $^{243}\text{Am}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$; deduced $Q\alpha$. $^{267,268}\text{Db}(\text{SF})$ [from $^{243}\text{Am}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $T_{1/2}$. Comparison with model predictions. REPT JINR-E7-2003-178,Oganessian

A=280

^{280}Rg	20030GZY	RADIOACTIVITY $^{287,288}115$, $^{283,284}113$, $^{279,280}\text{Rg}$, $^{275,276}\text{Mt}$, $^{272}\text{Bh}(\alpha)$ [from $^{243}\text{Am}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$; deduced $Q\alpha$. $^{267,268}\text{Db}(\text{SF})$ [from $^{243}\text{Am}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $T_{1/2}$. Comparison with model predictions. REPT JINR-E7-2003-178,Oganessian
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A=281

^{281}Ds	20040G12	RADIOACTIVITY ^{271}Sg , ^{275}Hs , ^{279}Ds , $^{282,283,285}112$, $^{286,287,288,289}114$, $^{292,293}116(\alpha)$; ^{267}Rf , ^{271}Sg , $^{279,281}\text{Ds}$, $^{284}112$, $^{286}114(\text{SF})$ [from $^{233,238}\text{U}$, ^{242}Pu , $^{248}\text{Cm}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. Comparison with model predictions. JOUR PRVCA 70 064609
	20040GZZ	RADIOACTIVITY ^{271}Sg , ^{275}Hs , ^{279}Ds , $^{282,283,285}112$, $^{286,287,288,289}114$, $^{292,293}116(\alpha)$; ^{267}Rf , ^{271}Sg , $^{279,281}\text{Ds}$, $^{284}112$, $^{286}114(\text{SF})$ [from $^{233,238}\text{U}$, ^{242}Pu , $^{248}\text{Cm}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian

A=282

$^{282}112$	20030GZZ	RADIOACTIVITY $^{294}118$, $^{290}116(\alpha)$, $^{286}114(\alpha)$, (SF) [from $^{249}\text{Cf}(^{48}\text{Ca}, 3\text{n})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$, fission fragment spectra. Comparison with model predictions. REPT UCRL-ID-151619,Oganessian
	20040G12	RADIOACTIVITY ^{271}Sg , ^{275}Hs , ^{279}Ds , $^{282,283,285}112$, $^{286,287,288,289}114$, $^{292,293}116(\alpha)$; ^{267}Rf , ^{271}Sg , $^{279,281}\text{Ds}$, $^{284}112$, $^{286}114(\text{SF})$ [from $^{233,238}\text{U}$, ^{242}Pu , $^{248}\text{Cm}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. Comparison with model predictions. JOUR PRVCA 70 064609
	20040GZZ	RADIOACTIVITY ^{271}Sg , ^{275}Hs , ^{279}Ds , $^{282,283,285}112$, $^{286,287,288,289}114$, $^{292,293}116(\alpha)$; ^{267}Rf , ^{271}Sg , $^{279,281}\text{Ds}$, $^{284}112$, $^{286}114(\text{SF})$ [from $^{233,238}\text{U}$, ^{242}Pu , $^{248}\text{Cm}(^{48}\text{Ca}, \text{xn})$ and subsequent decay]; measured $E\alpha$, $T_{1/2}$. Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian

A=283

²⁸³ 112	2003YA22	NUCLEAR REACTIONS ²³⁸ U(⁴⁸ Ca, 3n), E ≈ 233 MeV; measured radiochemical yield; deduced chemical properties. JOUR RAACA 91 433
	2004OG12	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured Eα, T _{1/2} . Comparison with model predictions. JOUR PRVCA 70 064609
	2004GZZ	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured Eα, T _{1/2} . Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian
²⁸³ 113	2003GZY	RADIOACTIVITY ^{287,288} 115, ^{283,284} 113, ^{279,280} Rg, ^{275,276} Mt, ²⁷² Bh(α) [from ²⁴³ Am(⁴⁸ Ca, xn) and subsequent decay]; measured Eα, T _{1/2} ; deduced Qα. ^{267,268} Db(SF) [from ²⁴³ Am(⁴⁸ Ca, xn) and subsequent decay]; measured T _{1/2} . Comparison with model predictions. REPT JINR-E7-2003-178,Oganessian

A=284

²⁸⁴ 112	2004OG12	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured Eα, T _{1/2} . Comparison with model predictions. JOUR PRVCA 70 064609
	2004GZZ	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured Eα, T _{1/2} . Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian
²⁸⁴ 113	2003GZY	RADIOACTIVITY ^{287,288} 115, ^{283,284} 113, ^{279,280} Rg, ^{275,276} Mt, ²⁷² Bh(α) [from ²⁴³ Am(⁴⁸ Ca, xn) and subsequent decay]; measured Eα, T _{1/2} ; deduced Qα. ^{267,268} Db(SF) [from ²⁴³ Am(⁴⁸ Ca, xn) and subsequent decay]; measured T _{1/2} . Comparison with model predictions. REPT JINR-E7-2003-178,Oganessian

A=285

²⁸⁵ 112	2004OG12	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured Eα, T _{1/2} . Comparison with model predictions. JOUR PRVCA 70 064609
	2004GZZ	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured Eα, T _{1/2} . Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian

A=286

²⁸⁶ 114	20030GZZ	RADIOACTIVITY ²⁹⁴ 118, ²⁹⁰ 116(α), ²⁸⁶ 114(α), (SF) [from ²⁴⁹ Cf(⁴⁸ Ca, 3n) and subsequent decay]; measured E α , T _{1/2} , fission fragment spectra. Comparison with model predictions. REPT UCRL-ID-151619,Oganessian
	20040G12	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured E α , T _{1/2} . Comparison with model predictions. JOUR PRVCA 70 064609
	20040GZZ	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured E α , T _{1/2} . Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian

A=287

²⁸⁷ 114	20040G12	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured E α , T _{1/2} . Comparison with model predictions. JOUR PRVCA 70 064609
	20040GZZ	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured E α , T _{1/2} . Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian
²⁸⁷ 115	20030GZY	NUCLEAR REACTIONS ²⁴³ Am(⁴⁸ Ca, 3n), (⁴⁸ Ca, 4n), E=253 MeV; measured (recoil) α -, $\alpha\alpha$ -coin following residual nucleus decay; deduced production σ . REPT JINR-E7-2003-178,Oganessian
	20030GZY	RADIOACTIVITY ^{287,288} 115, ^{283,284} 113, ^{279,280} Rg, ^{275,276} Mt, ²⁷² Bh(α) [from ²⁴³ Am(⁴⁸ Ca, xn) and subsequent decay]; measured E α , T _{1/2} ; deduced Q α . ^{267,268} Db(SF) [from ²⁴³ Am(⁴⁸ Ca, xn) and subsequent decay]; measured T _{1/2} . Comparison with model predictions. REPT JINR-E7-2003-178,Oganessian

A=288

²⁸⁸ 114	20040G12	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured E α , T _{1/2} . Comparison with model predictions. JOUR PRVCA 70 064609
	20040GZZ	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured E α , T _{1/2} . Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian

A=288 (continued)

²⁸⁸ 115	20030GZY	NUCLEAR REACTIONS ²⁴³ Am(⁴⁸ Ca, 3n), (⁴⁸ Ca, 4n), E=253 MeV; measured (recoil) α -, $\alpha\alpha$ -coin following residual nucleus decay; deduced production σ . REPT JINR-E7-2003-178,Oganessian
	20030GZY	RADIOACTIVITY ^{287,288} 115, ^{283,284} 113, ^{279,280} Rg, ^{275,276} Mt, ²⁷² Bh(α) [from ²⁴³ Am(⁴⁸ Ca, xn) and subsequent decay]; measured E α , T _{1/2} ; deduced Q α . ^{267,268} Db(SF) [from ²⁴³ Am(⁴⁸ Ca, xn) and subsequent decay]; measured T _{1/2} . Comparison with model predictions. REPT JINR-E7-2003-178,Oganessian
	2004DMZZ	NUCLEAR REACTIONS ²⁴³ Am(⁴⁸ Ca, 3n), E=247 MeV; measured delayed fission fragment and neutron spectra following radiochemical separation; deduced σ , evidence for Z=115 and Z=113 production. REPT JINR-E12-2004-157,Dmitriev

A=289

²⁸⁹ 114	20040G12	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured E α , T _{1/2} . Comparison with model predictions. JOUR PRVCA 70 064609
	20040GZZ	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured E α , T _{1/2} . Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian

A=290

²⁹⁰ 116	20030GZZ	RADIOACTIVITY ²⁹⁴ 118, ²⁹⁰ 116(α), ²⁸⁶ 114(α), (SF) [from ²⁴⁹ Cf(⁴⁸ Ca, 3n) and subsequent decay]; measured E α , T _{1/2} , fission fragment spectra. Comparison with model predictions. REPT UCRL-ID-151619,Oganessian
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A=291

²⁹¹ 116	20040G12	NUCLEAR REACTIONS ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, 2n), (⁴⁸ Ca, 3n), (⁴⁸ Ca, 4n), (⁴⁸ Ca, 5n), E* \approx 25-55 MeV; measured excitation functions. Comparison with model predictions. JOUR PRVCA 70 064609
	20040GZZ	NUCLEAR REACTIONS ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, 2n), (⁴⁸ Ca, 3n), (⁴⁸ Ca, 4n), (⁴⁸ Ca, 5n), E* \approx 25-55 MeV; measured excitation functions. Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian

A=292

²⁹² 116	20040G12	NUCLEAR REACTIONS ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, 2n), (⁴⁸ Ca, 3n), (⁴⁸ Ca, 4n), (⁴⁸ Ca, 5n), E* ≈ 25-55 MeV; measured excitation functions. Comparison with model predictions. JOUR PRVCA 70 064609
	20040G12	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured Eα, T _{1/2} . Comparison with model predictions. JOUR PRVCA 70 064609
	20040GZZ	NUCLEAR REACTIONS ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, 2n), (⁴⁸ Ca, 3n), (⁴⁸ Ca, 4n), (⁴⁸ Ca, 5n), E* ≈ 25-55 MeV; measured excitation functions. Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian
	20040GZZ	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured Eα, T _{1/2} . Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian

A=293

²⁹³ 116	20040G12	NUCLEAR REACTIONS ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, 2n), (⁴⁸ Ca, 3n), (⁴⁸ Ca, 4n), (⁴⁸ Ca, 5n), E* ≈ 25-55 MeV; measured excitation functions. Comparison with model predictions. JOUR PRVCA 70 064609
	20040G12	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured Eα, T _{1/2} . Comparison with model predictions. JOUR PRVCA 70 064609
	20040GZZ	NUCLEAR REACTIONS ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, 2n), (⁴⁸ Ca, 3n), (⁴⁸ Ca, 4n), (⁴⁸ Ca, 5n), E* ≈ 25-55 MeV; measured excitation functions. Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian
	20040GZZ	RADIOACTIVITY ²⁷¹ Sg, ²⁷⁵ Hs, ²⁷⁹ Ds, ^{282,283,285} 112, ^{286,287,288,289} 114, ^{292,293} 116(α); ²⁶⁷ Rf, ²⁷¹ Sg, ^{279,281} Ds, ²⁸⁴ 112, ²⁸⁶ 114(SF) [from ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, xn) and subsequent decay]; measured Eα, T _{1/2} . Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian

A=294

²⁹⁴ 116	20040G12	NUCLEAR REACTIONS ^{233,238} U, ²⁴² Pu, ²⁴⁸ Cm(⁴⁸ Ca, 2n), (⁴⁸ Ca, 3n), (⁴⁸ Ca, 4n), (⁴⁸ Ca, 5n), E* ≈ 25-55 MeV; measured excitation functions. Comparison with model predictions. JOUR PRVCA 70 064609
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A=294 (*continued*)

	20040GZZ	NUCLEAR REACTIONS $^{233,238}\text{U}$, ^{242}Pu , ^{248}Cm (^{48}Ca , 2n), (^{48}Ca , 3n), (^{48}Ca , 4n), (^{48}Ca , 5n), $E^* \approx 25\text{-}55\text{ MeV}$; measured excitation functions. Comparison with model predictions. REPT JINR-E7-2004-160,Oganessian
$^{294}\text{118}$	20030GZZ	NUCLEAR REACTIONS ^{249}Cf (^{48}Ca , 3n), $E=245\text{ MeV}$; measured $E\alpha$, fission fragment spectra following residual nucleus decay; deduced evidence for $^{294}\text{118}$. Gas-filled recoil separator. REPT UCRL-ID-151619,Oganessian
	20030GZZ	RADIOACTIVITY $^{294}\text{118}$, $^{290}\text{116}(\alpha)$, $^{286}\text{114}(\alpha)$, (SF) [from ^{249}Cf (^{48}Ca , 3n) and subsequent decay]; measured $E\alpha$, $T_{1/2}$, fission fragment spectra. Comparison with model predictions. REPT UCRL-ID-151619,Oganessian

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