

Preface

The DAE-BRNS Eighth Workshop in High Energy Physics Phenomenology (WHEPP-8) was held at the Indian Institute of Technology, Mumbai during January 5–16, 2004. As in the past, this workshop also attracted leading researchers in phenomenology from all over to take part in two weeks of intense work on problems in high energy phenomenology and astroparticle physics.

The workshop had four working groups. A few themes were identified and an invited plenary talk on each of these themes was delivered. Participants presented additional talks during the working group sessions which developed the themes and posed well defined problems which were addressed during the workshop. The problems that were discussed are listed in the working group reports included in these proceedings. The studies, which have already reached fruition, have been published in research journals. We hope the rest of the studies will be finished soon and will also be published. In addition to the talks included in these proceedings, the following talks were also presented at the workshop. 1. Y Nir – CP violation in B mesons: Present and future, 2. Y Shadmi – Recent developments in GUTs, 3. M Narain – Tevatron status and prospects, 4. G Landberg – An experimental review of extra dimensions.

This is the first time the Board of Research for Nuclear Sciences has sponsored a workshop of this series. We express our sincere thanks to BRNS for accepting our proposal of organizing WHEPP-8. We also thank Prof. Rajiv Gvai and Prof. Naba Mondal of TIFR for their help in negotiating the sponsorship of BRNS.

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We thank the members of the National Organizing Committee for their advice in identifying the themes of the working groups and for their valuable suggestions in drawing up the scientific programme of the workshop. The coordinators of the four working groups worked diligently in conducting the working group sessions and providing leadership. They deserve our sincerest thanks for their work and for their untiring efforts in preparing the working group reports.

We have received outstanding support from all the departments of IIT Bombay for the successful organization of the workshop. We thank Prof. Ashok Misra, the Director and Prof. Kartic Khillar, Dean R&D, for all the support they have provided at all stages in the organization of the workshop. We also thank our colleagues in the Local Organizing Committee, Prof. S S Major, Prof. D S Misra, Prof. P Ramadevi, Prof. C V Tomy, Prof. Raghava Varma and Prof. R Vijaya for their help in organizing this workshop. We also thank the administrative staff of the Physics Department, IIT Bombay and our graduate students, in particular, M. Rabikumar, Narendra Sahu, Bipin Singh Koranga, Asutosh Kumar Alok, Praveena Borhade and Anjishnu Sarkar, for their help. Finally, we must acknowledge Dr. Ameeya Bhagwat for help received in the preparation of the manuscript.

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As with any workshop, the participants were the backbone of this workshop. We thank all the participants for accepting our invitation. Conducting this workshop was an exciting and beneficial experience for us. It is our sincere hope that the participants also found it in the same way.

S Uma Sankar

Urjit A Yajnik

(Guest Editors)

Indian Institute of Technology, Mumbai