PREFACE

The Third Workshop on High Energy Particle Physics (WHEPP-3) was held at the Institute of Mathematical Sciences, Madras during January 10-22, 1994. This is the third in the series of workshops; the first one was held at T. I. F. R., Bombay (January 1989) and the second one was held by S. N. Bose Centre, Calcutta (January 1991). About 100 particle physicists have attended the workshop.

As in the previous two workshops, four broad topics were chosen for the formation of working groups. These are

1. Collider physics and structure functions (coordinated by Amitava Datta and Rohini Godbole)
2. Beyond standard model (coordinated by Anjan Joshipura and Probir Roy)
3. Heavy ion physics (coordinated by Sourendu Gupta and J. C. Parikh)
4. Heavy flavour physics (coordinated by S. Uma Sankar)

The first week was devoted to review talks on various topics of current interest and to the formation of working groups. The second week was devoted to talks by participants on their work and the discussion of the problems that were raised in working group sessions. The group coordinators presented the results of the discussions on the last day of the workshop.

These proceedings contain the written version of the review talks given during the first week. In addition to the contributions included here, the following talks were also presented:

1. Top quark search at tevatron ... *N. K. Mondal*
2. Searches for new physics at LEP200 ... *Sudhakar Katta*
3. Neutrino Masses and Mixing Angles ... *K. S. Babu*
4. Lepton Number Violation ... *J. W. F. Valle*

Most of the support for the workshop has come from S. N. Bose National Centre for Basic Sciences, Calcutta. Additional support was also given by the Department of Science and Technology, Government of India, New Delhi, The Institute of Mathematical Sciences, Madras and the International Center for Theoretical Physics (ICTP), Trieste.

I thank Prof. R. Ramachandran, Director, Institute of Mathematical Sciences, for the enthusiasm with which he agreed to host the workshop and for providing constant support. I also thank Prof. G. Rajasekaran, Dr. M. V. N. Murthy and Dr. Rahul Sinha for offering their help without any hesitation at all times. My sincere thanks to all the office, the library and the guest house staff of the Institute of Mathematical Sciences, who worked untiringly to take care of the workshop participants and made the workshop a success. Finally I would like to thank my colleagues at T. I. F. R., particularly Dr. Sourendu Gupta and Dr. Suresh Govindarajan of the Theory Group and Dr. Kajari Mazumdar of the E. H. E. P. Group, for their help in preparing the proceedings.

S. Uma Sankar