

## FOREWORD

The 56th annual Nuclear Physics Symposium sponsored by the Board of Research in Nuclear Sciences and Department of Atomic Energy (DAE) is being held at Andhra University, Visakhapatnam during Dec. 26-30, 2011. It was with the initiative of Dr. Homi J. Bhabha that the annual DAE Nuclear Physics Symposium was started with the aim to provide a scientific forum to the nuclear physics community to present their research work and to interact with the researchers in this area. In the year 1911 Lord Rutherford discovered the nucleus and this centenary year is very special for the nuclear physics community.

There has been a very enthusiastic response to the symposium in terms of the number of papers (481 nos) and theses (10 nos) submitted for presentation in the symposium. In addition, there are 24 invited talks being delivered by distinguished speakers from India and abroad. The invited talks cover a wide range of topics from low to high energy nuclear physics, instrumentation and detector facilities. The present volume contains the contributed papers as well as the invited talks published as electronic version. We also hold one day orientation programme on 25<sup>th</sup> Dec. 2011 on "Data acquisition and experimental techniques".

We would like to thank Department of Nuclear Physics, Andhra University, Visakhapatnam for hosting the symposium and providing the invaluable support. We thank all the members of advisory and organizing committee for their suggestions and support. We also thank the screening committee members for help in scrutinizing the contributed papers submitted for presentation in the symposium. We record our gratitude to Prof. S. Lakshminarayana, convener of the local organizing committee and the team members from Andhra University. The financial support from Board of Research in Nuclear Sciences, DAE for the conduct of the symposium is hereby duly acknowledged.

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