

# Preface

The need for publishing the proceedings for the XXI edition of the DAE-BRNS High Energy Physics (HEP) Symposium was felt much earlier than the commencement of the symposium. Dissemination of scientific ideas and knowledge through the publication of the proceedings constitutes a significant component of any conference and the XXI DAE-BRNS High Energy Physics Symposium is no exception.

DAE-BRNS HEP symposium is held every other year in India, supported by the Board of Research in Nuclear Sciences, Department of Atomic Energy, Government of India and is considered as one of the premiere conferences organized in India in the field of elementary particle physics. Around 250 physicists and researchers participated in the symposium to discuss the latest advancements in the fields of particle physics, astro-particle physics, cosmology, and development of new detector technology and accelerator, which was held at Indian Institute of Technology Guwahati during December 8–12, 2014.

This volume includes manuscripts from both invited and contributed talks from most of the active areas of research in particle physics, namely electroweak physics, QCD, heavy ion physics, heavy flavor physics, CP violation, neutrino physics, astro-particle physics, cosmology, formal theory, future colliders, new machines, and BSM Physics such as SUSY, extra dimensions, composites, etc.

The book is intended for both young as well as advanced researchers of the field who are actively following the exciting time that we are all in after the discovery of the Higgs boson at CERN and the recent results from the intensity and the cosmic frontier experiments.

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Bipul Bhuyan

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