



11th School on LHC Physics

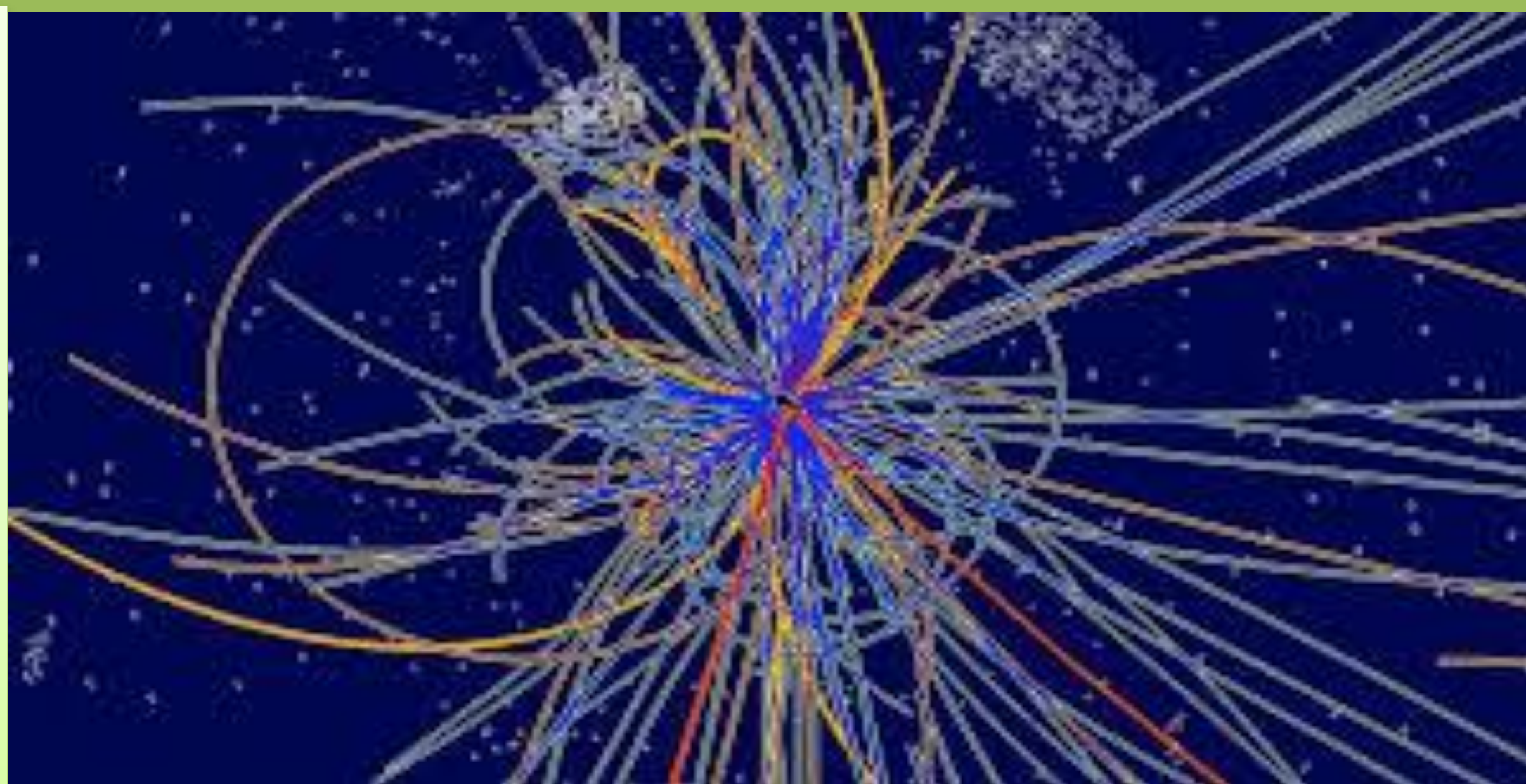
August 22 – September 02, 2022
organized by CoE Physics of
National Centre for Physics, Islamabad



The Large Hadron Collider (LHC), at CERN, Switzerland, is the world's largest man-made particle accelerator to answer fundamental questions about origin of matter through precision measurements of Standard Model (SM) and exploring physics Beyond Standard Model. The large amount of LHC data i.e. 300-350 fb⁻¹ will be collected at 14 TeV during Run-3. CoE Physics at NCP is actively involved in Phase-2 Tracker Upgrade of CMS. The school will provide opportunity to young scientists, graduate students to learn about the techniques and tools needed to extract exciting physics results from proton-proton collision data. Students will get chance to participate in lab-activities like how to qualify a silicon sensor, how to assemble and test it. Renowned particle physicists will deliver lectures covering different areas of Particle Physics.

Topics covered

- SM and Beyond
- Top Quark, Higgs Physics
- QCD and Monte Carlo
- Detectors in HEP
- Object Identification, Jet & MET
- Statistical Tools in HEP
- Hands on Exercises of LHC data



Directors

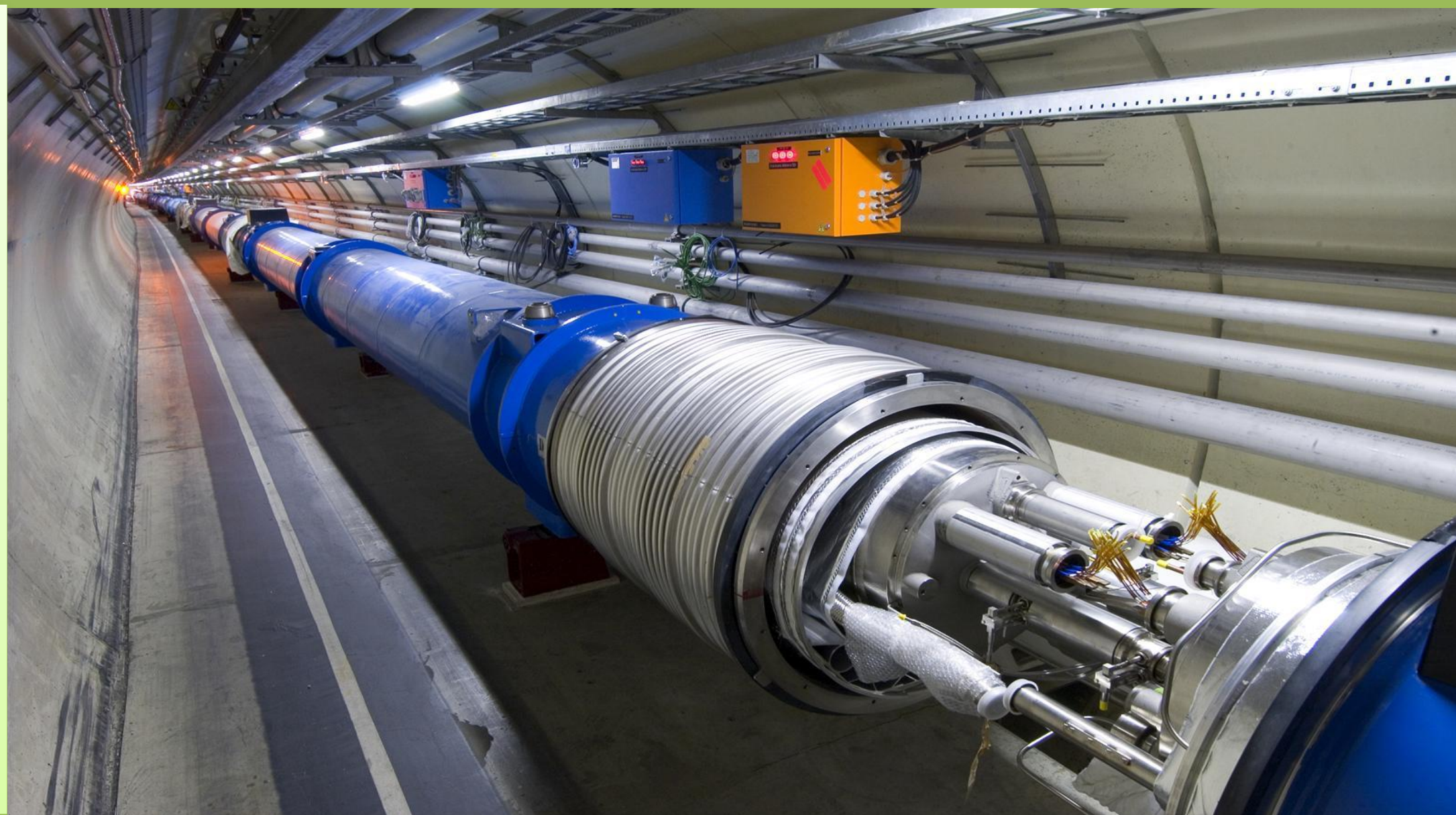
Mansoor Hameed Inayat (NCP, Pakistan)
Ishaq Ahmad (NCP, Pakistan)
Ashfaq Ahmad (NCP, Pakistan)

Invited Speakers

John Ellis (Kings College, UK)
Thomas Muller (KIT, Germany)
Duccio Abbaneo (CERN, Switzerland)
Joshuha Thomas-Wilsker (CERN, Switzerland)
Henning Kirschenmann (UoH, Finland)
Bilal Masood (CHEP, Pakistan)
Ashfaq Ahmad (NCP, Pakistan)
Faisal Akram (CHEP, Pakistan)
Muhammad Jamil Aslam (QAU, Pakistan)
Mansoor ur Rehman (QAU, Pakistan)
Wajid Ali Khan (NCP, Pakistan)
Saleh Muhammad (NCP, Pakistan)
Imran Malik Awan (NCP, Pakistan)
Muhammad Shoaib (IUB, Pakistan)
Rizwan Khalid (LUMS, Pakistan)

Participation

Graduate/Undergraduate students of universities institutes and young scientists, who are new to the field of particle physics or intend to work in this field can apply. For all participants, boarding and lodging will be covered by school. Partial travel support will also be provided.



Local Organizers

Saleh Muhammad
Wajid Ali Khan
Rabia Rasheed Butt
Zeeshan Siddiqui

Technical Coordinator

Muhammad Irfan Asghar
Email: irfan.asghar@ncp.edu.pk
Phone: 051-2077388

Application Deadline

For Local participants: **August 08, 2022**
For foreign participants: **July 25, 2022**

How to Apply

follow the link below to apply:
<http://www.ncp.edu.pk/slp-2022.php>

Registration fee of Pak. Rs. 2000/- will be charged on the first day school from the finally selected participants.

Contact Information:

Email: slp-2022@ncp.edu.pk
Telephone: +92-51-2077363, +92-51-2077388
Fax: +92-51-2077342

