13th School on LHC Physics

August 19 - 30, 2024

Organized By

National Centre for Physics (NCP), Islamabad, Pakistan

The Experimental High Energy Physics Department (EHEPD), CoE Physics at the National Centre for Physics (NCP), Islamabad is organizing 13th School on LHC Physics from August 19 - 30, 2024. The objective of the school is to provide a platform to young researchers and students to interact with the leading experts of the field and to learn the latest tools and techniques used to analyze the large experimental physics data.

Topics Covered

- Standard Model of Particle Physics and Beyond
- Top Quark, Higgs and Electroweak Physics
- Super Symmetry (SUSY) Searches
- Search for Dark Matter and Long Lived Particles
- Statistical Techniques in High Energy Physics (HEP)
- Data Science and Machine Learning in HEP
- Monte Carlo Generators in High Energy Physics
- Physics Objects, Trigger and Data Acquisition
- Particle Detector and Future Technologies
- Future Colliders

Special Public Lectures

1. 70 Years of Scientific Discovery and Innovation @ CERN
2. Statistics for Physical Sciences
3. Machine Learning for Physical Sciences

Participation

The School will be of the interest to graduate / post-graduate students, early career post-doctoral researchers, faculty members and research scientists who are working / intend to work in the field of particle physics. By the start of the School, the applicant must have completed at least 2-4 years of full-time studies at the university level. The registration fee is Rs. 3000/- for local students and Rs. 6000/- (including accommodation charges) for out-stationed students and for employees the fee is Rs. 8000/-. The online application form is available at the School website http://www.ncp.edu.pk/slp-2024.php.

For further queries, please contact

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Directors

Qaisar Ahsan (NCP, Pakistan)
Ishaq Ahmad (NCP, Pakistan)
Ashfaq Ahmad (NCP, Pakistan)

Speakers (Tentative)

Roberto Tenchini (Pisa, Italy)
Jonas H. Rademacker (Bristol UK)
Thomas Muller (KIT, Germany)
Albert De Roeck (CERN, Switzerland)
Jonathan R. Ellis (UoL, UK)
Ducccio Abbaneo (CERN, Switzerland)
Markus Wallerberger (TU Wien, Austria)
Henning Kirschenmann (Helsinki, Finland)
Federica Maria Simone (INFN, Bari)
Bilal Masood (CHEP, Pakistan)
Ashfaq Ahmad (NCP, Pakistan)
Faisal Akram (CHEP, Pakistan)
Mansoor-ur-Rehman (QAU, Pakistan)
Jamil Aslam (QAU, Pakistan)
Wajid Ali Khan (NCP, Pakistan)

Advisory Committee

Roger Barlow (UoM, UK)
Albert De Roeck (CERN, Switzerland)
Roberto Tecihini (Pisa, Italy)
Jonathan R. Ellis (UoL, London)
Ducccio Abbaneo (CERN, Switzerland)

Scientific Secretary

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Organizing Committee

Waheed Mumtaz (NCP, Pakistan)
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Waqar Ahmed (NCP, Pakistan)
Tanzeel Murtaza (NCP, Pakistan)
Saleh Mohammad (NCP, Pakistan)
Imran Malik Awan (NCP, Pakistan)
Muhammad Irfan (NCP, Pakistan)
Zeeshan Ahmad (NCP, Pakistan)

Application Deadlines

Local participants
July 10, 2024

Foreign participants
June 15, 2024

This artistically enhanced watermark was produced by the Big European Bubble Chamber (BEBC), which started up at CERN in 1973. Charged particles passing through a chamber filled with hydrogen-neon liquid leave bubbles along their paths (Image: BEBC)