

6th International Workshop on Tracking Detectors in High Energy Physics



November 06 – 10, 2023
CoE Physics, National Centre for Physics, Islamabad

Introduction

The Experimental High Energy Physics (EHEP) department of CoE Physics at the National Centre for Physics (NCP), Islamabad is organising this workshop aimed at providing a forum for the Pakistani high energy physics community particularly the young students and researchers to learn and discuss the latest updates on the tracking detector technologies and its applications in the high energy physics experiments.

The EHEP department is actively involved in the Compact Muon Solenoid (CMS) tracker phase-II upgrade project. The CMS is one of the experiments of the world's largest accelerator called Large Hadron Collider (LHC) at CERN, which is located at the border of Switzerland and France. The NCP is one of six certified centres for silicon sensor qualification and one of the ten centres for module assembly worldwide within the CMS tracker collaboration. A dedicated laboratory has been built at NCP which consists of state-of-the-art instrumentations. The CMS tracker will measure the trajectories and momenta of charged particles produced as a result of proton-proton collisions at the center of the CMS experiment. This workshop will also cover the recent progress and future aspects of CMS tracking detectors.

Topics

Silicon Detectors: Physics and Principle
Tracking Detectors at LHC and their Performance
CMS Phase-2 Tracker Upgrade Project
CMS Tracker Mechanics and Ladder Assembly
Silicon Strip and Pixel Detectors
CMS Tracker 2S Detector Assembly and Testing
Gas Electron Multiplier Detectors
Resistive Plate Chambers



Participation

The graduate/undergraduate students, faculty members, scientists, engineers from universities and R&D organizations are encouraged to apply.

Contact Information

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Organisers

Imran Awan (NCP, Pakistan)
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Wajid Ali Khan (NCP, Pakistan)
Muhammad Irfan Asghar (NCP, Pakistan)
Muhammad Usman (NCP, Pakistan)
Rabia Rasheed (NCP, Pakistan)

Tentative Speakers

Duccio Abbaneo (CERN, Switzerland)
Sally Seidel (University of New Mexico, USA)
Ashfaq Ahmad (NCP, Pakistan)
Muhammad Aftab Rafiq (PIEAS, Pakistan)
Marcello Abbrescia (INFN, Italy)
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Viktor Veszpremi (Wigner RCP, Hungary)
Katja Klein (RWTH AACHEN University, Germany)

Apply Online at Following Link

<http://www.ncp.edu.pk/iwtd-2023.php>

Registration Fee

Students: 2000 PKR

Employees: 3000 PKR

Application Deadline

September 12, 2023