

Session Program

13-17 May 2024



DPF - PHENO 2024

Instrumentation

University of Pittsburgh / Carnegie Mellon University

Monday 13 May

14:00

Instrumentation: Accelerators and Instrumentation

Session | Location: University of Pittsburgh, David Lawrence Hall 207 | Convener: dorival Gonçalves

14:00-14:15

Cosmic Muon Explorer: A Portable Detector for On-Site Measurements and Outreach

Speaker

Yuvaraj Elangovan

14:15-14:30

A high efficiency cosmic ray muon detector for the Mu2e experiment

Speaker

Samuel Grant

14:30-14:45

Measurements of a LYSO Crystal Array for a Rare Pion Decay Experiment

Speaker

David Hertzog

14:45-15:00

Radiative corrections to low energy electron proton scattering

Speaker

Daniel Crowe

15:00-15:15

Pair Production and Hadron Photoproduction Backgrounds at Cool Copper Collider (C3) accelerator

Speaker

Abdollah Mohammadi

15:15-15:30

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15:30

Wednesday 15 May

14:00

Instrumentation: Neutrinos, Dark Matter, and Scintillation

Session | **Location:** University of Pittsburgh, Barco Law Building 111 | **Convener:** Andreas Werner Jung

14:00–14:15

Water-based Liquid Scintillator R&D effort at BNL towards a large-scale neutrino detector

Speaker

Guang Yang

14:15–14:30

Towards a Kilotonne-Year Exposure in Liquid Xenon

Speaker

Abigail Kopec

14:30–14:45

Measuring Optical Properties in Liquid Xenon with LIXO2

Speaker

Dr Wei Wang

14:45–15:00

NuDot, R&D testbed for future large-scale neutrino detectors

Speaker

Masooma Sarfraz

15:00–15:15

Optimization of high resolution 3D charge reconstruction in gaseous TPCs with strip micromegas

Speaker

Majd Ghrear

15:15–15:30

Measurement of refractive index of phenyl-based scintillators before and after irradiation

Speaker

Muhammad Yusuf Aamir

15:30

16:00

Instrumentation: ATLAS and CMS

Session | **Location:** University of Pittsburgh, Barco Law Building 109 | **Convener:** Zhi Zheng

16:00–16:15

Assembly and Testing of ATLAS ITk pixel detector modules

Speaker

Doyeong Kim

16:15–16:30

Ambiguity Resolution for Event Filter Tracking in ATLAS for the HL-LHC

Speaker

Benjamin John Rosser

16:30–16:45

From Components to Cohesion: ATLAS ITk Inner System Assembly and Testing

17:30	Speaker Nathan Dale Young
	<div>16:45-17:00</div> gFEX Algorithm Validation and Early Performance in the ATLAS Detector Speaker Anthony Maurel Carroll
	<div>17:00-17:15</div> Silicon Module Assembly for CMS High Granularity Calorimeter Speaker Sindhu Murthy
	<div>17:15-17:30</div> -