Session Program

27-29 Oct 2025

Artificial Intelligence for the Electron Ion Collider (AI4EIC) 2025

AI/ML for ePIC and Beyond

Tuesday 28 October

10:00

AI/ML for ePIC and Beyond
Session

10:00–10:20   **ePIC AI/ML Overview**

Speaker
Dmitrii Kalinkin

10:20–10:35

Toward Unified Deep Learning Models for Simulation and PID with Cherenkov Detectors: the hpDIRC case

Speaker
Cristiano Fanelli

10:35–10:50   **Tools for Unbinned Unfolding**

Speaker
Ryan Milton

10:50–11:05

Multi-FPGA distributed MLP NN model for data reduction in ePIC dRICH readout system

Speaker
Cristian Rossi

11:05–11:20   **Coffee Break**

11:20–11:35

Scalable AI-assisted Workflow Management for EIC Detector Design Across Distributed Heterogeneous Resources with PanDA-iDDS

Speaker
Wen Guan

11:35–11:50   **Machine Learning for the pfRICH Particle Identification subsystem**

Speakers
Bishoy Dongwi, Charles-Joseph Naïm

11:50–12:05

RAG-inspired Open-source based Q&A system for scholarly articles in EIC

Speaker
Tapasi Ghosh

12:05–12:20

ESI-Fastlight: a Conditional Normalizing Flow for Fast pfRICH Hitmap Generation

Speaker
Gabor Galgoczi

12:20–12:30   **ML for the hKLM at the 2nd Detector**

Speaker

Rowan Kelleher

12:30–12:40 **SRO AI/ML Models for Meson Structure Function Extraction**

Speaker

Sandeep Shiraskar

12:40–13:15 **Discussion**

13:15