Session Program

27–29 Oct 2025

Artificial Intelligence for the Electron Ion Collider (AI4EIC) 2025

AI/ML for Data Analysis and Theory

Tuesday 28 October

14:30

AI/ML for Data Analysis and Theory

Session

14:30–14:50 **Relativity Wasn’t in the Training Set**

Speaker
Miles Cranmer

14:50–15:10 **Symbolic Regression**

Speaker
Douglas Adams

15:10–15:30 **Neural Net ensembles for Bayesian inference of PDFs**

Speaker
Maria Ubiali

15:30–15:45 **Coffee Break**

15:45–16:05 **Artificial Intelligence in the EIC era at the BSM-PDF frontier**

Speaker
Tim Hobbs

16:05–16:25 **ML-accelerated sampling for theory**

Speaker
Phiala Shanahan

16:25–16:45 **Generative AI for data analysis and preservation**

Speaker
Marco Battaglieri

16:45–17:05 **What we talk about when we talk about gluon saturation**

Speaker
Peter Jacobs

17:05–17:20 **Coffee Break**

17:20–17:30
DeepSub: Deep Image Reconstruction for Background Subtraction in Heavy-Ion Collisions

Speaker
Umar Sohail Qureshi

17:30–17:40
Deep Neural Networks for Extracting the 3D Structure of Nucleon at the EIC

Speaker
Dr Ishara Fernando

17:40–17:50

Extraction of Chiral Odd Compton form factors using Maximum Likelihood Method from Exclusive 0 production experiment.

Speaker
Dr Saraswati Pandey

17:50–18:00 **Neural Network Generalized Parton Distributions**

Speaker
Zaki Panjsheeri

18:11