

Session Program

27-29 Oct 2025



Artificial Intelligence for the Electron Ion Collider (AI4EIC) 2025

Trends in Data Science

Wednesday 29 October

10:00

Trends in Data Science

Session

10:00–10:20

AuroraGPT: A Foundation Model for Science

Speaker

Rajeev Thakur

10:20–10:40

Smart Pixel Project : AI for pixel readout

Speaker

Lindsey Gray

10:40–11:00

Fast ML for Science

Speaker

Nhan Tran

11:00–11:10

Geometric GNNs for Charged Particle Tracking

Speaker

Ahmed Mohammed

11:10–11:20

Electron-Proton Scattering Event Generation using Structured Tokenization

Speaker

Steven Goldenberg

11:20–11:30

FM4NPP: A Scaling Foundation Model for Nuclear and Particle Physics

Speaker

Shuhang Li

11:30–11:45

Coffee Break

11:45–12:05

Examples of AI for Particle Physics

Speaker

Geoffrey Fox

12:05–12:25

SAGIPS: A scalable Framework for SciDAC QuantOm

Speaker

Daniel Lersch

12:25–12:45

LLMs for particle physics analysis: results from studies on a toy model

Speaker

Deepak Samuel

12:45–13:05

AI Reasoning for Theoretical Physics

Speaker

Yurii Kvasiuk

13:15

13:05-13:15

Discussion