Session Program

4–8 Nov 2024

ML4Jets2024

Reconstruction

LPNHE, Paris, France

Tuesday 5 November

09:00

Reconstruction

Session | **Location:** Amphi Charpak | **Convener:** Fabrice Balli

09:00–09:20

Deep learning on jet modification in the presence of the QGP background

Speaker
RAN LI

09:20–09:40

Transformer networks for constituent-based b-jet calibration with the ATLAS detector

Speaker
Brendon Bullard

09:40–10:00

Jet Finding as a Real-Time Object Detection Task

Speaker
Leon Bozianu

10:00–10:20

Transformer for Energy Calibration in the ATLAS Electromagnetic Calorimeter

Speaker
Ryan Roberts

10:20

10:50

Reconstruction

Session | **Location:** Amphi Charpak | **Convener:** Brendon Bullard

10:50–11:10

Synergizing Physics: Deep Learning Techniques for Time-of-Flight Reconstruction and Jet Tagging in High Energy Physics

Speaker
Konrad Helms

11:10–11:30

Particle flow and flavor tagging with DNN for Higgs factories

Speaker
Taikan Suehara

12:10

Wednesday 6 November

13:50

Reconstruction

Session | **Location:** Amphi Charpak | **Convener:** Katherine Fraser

13:50–14:10

Efficient Particle Tracking and Pileup Mitigation with State space model

Speaker
Cheng Jiang

14:10–14:30

Graph Neural Network-Based Track Finding in the LHCb Vertex Detector

Speaker
Fotis Giasemis

14:30–14:50

Accelerating Graph-based Tracking Tasks with Symbolic Regression

Speaker
Nathalie Soybelman

14:50–15:10

Denoising Graph Super-Resolution for Improved Collider Event Reconstruction

Speaker
Nilotpal Kakati

15:10–15:30

(R) Generative Neural Networks for Reconstructing Parton-Level Jet Showers after Hadronization

Speaker
Umar Sohail Qureshi

15:30