

Session Program

4-8 Nov 2024

ML4Jets2024

Anomaly detection

LPNHE, Paris, France

Thursday 7 November

09:00

Anomaly detection

Session | Location: Amphi Charpak, Amphi Charpak | Convener: Barry Dillon

09:00–09:20

Semi-Supervised Permutation Invariant Particle-Level Anomaly Detection

Speaker

Gabriel Pinheiro Matos

09:20–09:40

The versatility of flow-based fast calorimeter surrogate models

Speaker

Ian Pang

09:40–10:00

(R) Lorentz Group Equivariant Autoencoders

Speaker

Zichun Hao

10:00–10:20

New Physics Searches with Graph-Based Anomaly Detection in High-Energy Collisions

Speaker

Ines Isabel Gouveia Cipriano Piedade Moreira

10:20

10:50

Anomaly detection

Session | Location: Amphi Charpak | Convener: Jennifer Ngadiuba

10:50–11:10

Model-agnostic search for dijet resonances with anomalous jet substructure in proton-proton collisions at $\sqrt{s} = 13$ TeV with the CMS detector

Speaker

Aritra Bal

11:10–11:30

Efficient Resonant Anomaly Detection

Speaker

Ranit Das

11:30–11:50

TRANSIT your events into a new mass: Fast background interpolation for semi-supervised anomaly detection searches

Speaker

Mr Ivan Oleksiyuk

12:10