

Session Program

6-10 Nov 2023



ML4Jets2023

Anomalies

DESY, Main Auditorium

Wednesday 8 November

16:00

Anomalies

Session | **Location:** DESY, Seminarraum 4a/b | **Convener:** Huilin Qu

16:00–16:15

Back to the Roots: Tree-Based Algorithms for Weakly Supervised Anomaly Detection

Speaker

Marie Hein

16:15–16:30

Robust Anomaly Detection in the Presence of Irrelevant Features

Speaker

Yik Chuen San

16:30–16:45

Drapes: Diffusion for weak supervision

Speaker

Mr Matthew Leigh

16:45–17:00

The Interplay of Machine Learning-based Resonant Anomaly Detection Methods

Speaker

Radha Mastandrea

17:00–17:15

Full Phase Space Resonant Anomaly Detection

Speaker

Cedric Ewen

17:15–17:30

Combining resonant and tail-based anomaly detection

Speaker

Gerrit Bickendorf

17:45

Thursday 9 November

09:00

Anomalies

Session | **Location:** DESY, Main Auditorium | **Convener:** Vinicius Massami Mikuni

09:00–09:15 **Non-resonant Anomaly Detection with Background Extrapolation**

Speaker
Kehang Bai

09:15–09:30 **R-ANODE**

Speaker
Ranit Das

09:30–09:45 **Anomaly Detection in Collider Physics via Factorized Observables**

Speaker
Raymond Wynne

09:45–10:00

Unsupervised tagging of semivisible jets with normalized autoencoders in CMS

Speaker
Florian Eble

10:00

16:15

Anomalies

Session | **Location:** DESY, Main Auditorium | **Convener:** Michael Kraemer

16:15–16:30 **Cluster Scanning**

Speaker
Mr Ivan Oleksiyuk

16:30–16:45

Anomaly Detection in High Energy Physics via Non-Gaussian Variational Autoencoders

Speaker
Thomas Dartnall Stern

16:45–17:00

Quantum anomaly detection in the latent space of proton collision events at the LHC

Speaker
Vasilis Belis

17:00