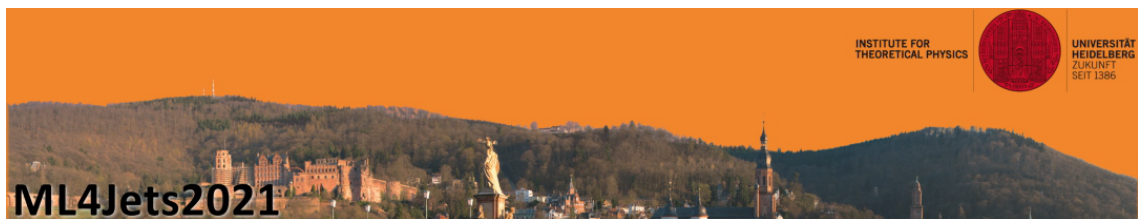


Session Program

6-8 Jul 2021



ML4Jets2021

BSM

Tuesday 6 July

14:00

BSM: Overdensity Methods

Session | **Location:** Philosophenweg 12, 69120 Heidelberg, Germany | **Conveners:** Caterina Doglioni, Mihoko Nojiri

14:00–14:20

High-dimensional Anomaly Detection with Radiative Return in $e+e-$ Collisions

Speaker

Julia Lynne Gonski

14:20–14:40

CATHODE part 1: introducing a new model-agnostic search strategy for resonant new physics at the LHC

Speaker

Anna Hallin

14:40–15:00

CATHODE part 2: robustness and comparison to other methods

Speaker

Manuel Sommerhalder

15:00–15:20

Anomaly Detection in the Copula Space

Speaker

Tommaso Dorigo

15:20

15:20

BSM: Latent Space Anomaly Detection

Session | **Location:** Philosophenweg 12, 69120 Heidelberg, Germany | **Conveners:** Mihoko Nojiri, Caterina Doglioni

15:20–15:40

Jet Metrics and Autoencoders

Speaker

Rashmish Mishra

15:40–16:00

Detecting Anomalous jets with Graph Neural Networks

Speaker

Mr Vishal Singh Ngairangbam

16:00–16:20

Review of the Dark Machine Anomaly Score Challenge I

Speaker

Joe Davies

16:20–16:40

Review of the Dark Machine Anomaly Score Challenge II

Speaker

Bryan Ostdeik

16:40

16:40

BSM: Data Space Searches with Autoencoders

Session | **Location:** Philosophenweg 12, 69120 Heidelberg, Germany | **Conveners:** Mihoko Nojiri, Caterina Doglioni

16:40–17:00

Boosting new physics sensitivity with Variational Autoencoders

Speaker
Kinga Anna Wozniak

17:00–17:20

Autoencoders for unsupervised anomaly detection in high energy physics

Speaker
Thorben Finke

17:20–17:40

Recognizing hadronic SUEP at the LHC with Unsupervised Machine Learning

Speaker
Jared Barron

17:40–18:00

Classifier-based Anomalous Jet Tagging

Speaker
Taoli Cheng

18:00