

## **Tuesday 1 November**

09:00 **Anomaly Detection** Session | Location: Rutgers University, Multipurpose Room (aka Livingston Hall), Livingston Student Center | Conveners: Dylan Sheldon Rankin, Elham E Khoda 09:00-09:25 Introduction to Anomaly Detection Speaker Dr Barry Dillon 09:25-09:45 Results from Unsupervised Machine Learning in an ATLAS Dijet Resonance Search Julia Lynne Gonski 09:45-10:05 A Normalized Autoencoder for LHC triggers Speaker Luigi Favaro Robust anomaly detection using NuRD 10:05-10:25 Speaker Abhijith Gandrakota

10:25-10:45 Challenges for unsupervised anomaly detection in particle physics

10:45

**Speaker** Katherine Fraser

## **Wednesday 2 November**

14:00 **Anomaly Detection** Session | Location: Rutgers University, Multipurpose Room (aka Livingston Hall), Livingston Student Center | Conveners: Dr Barry Dillon, Lawrence Lee Jr 14:00-14:20 **CURTAINs for your Sliding Window: Constructing Unobserved Regions by Transporting Adjacent INtervals** Speaker Johnny Raine 14:20-14:40 Generative Models for Resonant Anomaly Detection Speaker Elham E Khoda 14:40-15:00 HEP-Sim2Real: creating background templates with normalizing flows Speaker Radha Mastandrea 15:00-15:20 Weakly supervised methods for LHC analyses Speaker Thorben Finke Resonant anomaly detection without background sculpting 15:20-15:40 Speaker Manuel Sommerhalder

15:40

## **Thursday 3 November**

14:00 **Anomaly Detection** Session | Location: Rutgers University, Multipurpose Room (aka Livingston Hall), Livingston Student Center | Conveners: David Shih, Yuri Gershtein 14:00-14:20 Anomaly detection in a perspective of interdisciplinary research Speaker Taoli Cheng 14:20-14:40 Optimal Mass Variables for Semivisible Jets Speaker Kevin Pedro 14:40-15:00 Neural Embedding: Learning the Embedding of the Manifold of Physics Data Speaker Sang Eon Park 15:00-15:20 Hunting for signals using Gaussian Process regression Speaker Abhijith Gandrakota 15:20