**Session Program**

**1–4 Nov 2022**

# ML4Jets2022

# *Interpretability*

Rutgers University, Multipurpose Room (aka Livingston Hall)
Livingston Student Center

# Thursday 3 November

09:00

## Interpretability

**Session** | **Location:** Rutgers University, Multipurpose Room (aka Livingston Hall), Livingston Student Center |
**Conveners:** Prasanth Shyamsundar, Savannah Jennifer Thais

**09:00–09:20** **Infra-red and collinear safe Graph Neural Networks**

**Speaker**
Vishal Singh Ngairangbam

**09:20–09:40** **Resilience of Quark-Gluon Tagging**

**Speaker**
Lorenz Vogel

**09:40–10:00**

**Boost-Invariant Polynomials: an efficient and interpretable approach to jet tagging**

**Speaker**
Mr Jose Miguel Munoz Arias

**10:00–10:20** **Learning to Identify Semi-Visible Jets**

**Speaker**
Taylor James Faucett

**10:20–10:40** **Feature selection with Distance Correlation**

**Speaker**
RANIT DAS

10:40

11:10

## Interpretability

**Session** | **Location:** Rutgers University, Multipurpose Room (aka Livingston Hall), Livingston Student Center |
**Conveners:** Dr Purvasha Chakravarti, Abhijith Gandrakota

**11:10–11:30** **Jet tagging with deep sets of subjets**

**Speaker**
Dimitrios Athanasakos

**11:30–11:50** **Blueprints for Training Information Bottlenecks for Collider Analyses**

**Speaker**
Prasanth Shyamsundar

**11:50–12:10**

**Weakly Supervised Learning for Muon Discrimination in Unlabeled Collider Data**

**Speaker**
Edmund Witkowski

**12:10–12:30** **Can You Hear the Shape of a Jet?**

**Speaker**
Rikab Gambhir

12:50

12:30–12:50 **Neural Estimation of Energy Movers Distance**

**Speaker**
Ouail Kitouni