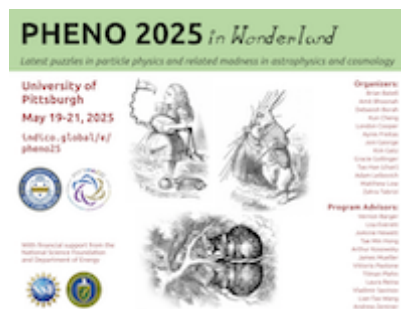


Session Program

19-21 May 2025



Phenomenology 2025 Symposium

Machine Learning

University of Pittsburgh

Monday 19 May

14:15

Machine Learning: Methods

Session | Location: David Lawrence Hall 107, University of Pittsburgh

14:15-14:30

Truth, beauty, and goodness in grand unification: A machine learning approach

Speaker

Dr Nobuchika Okada

14:30-14:45

The bias-variance-correlation tradeoff and its implications for ML applications in HEP

Speaker

Prasanth Shyamsundar

14:45-15:00

Synaptic Field Theory

Speaker

Jaeok Yi

15:00-15:15

Frequentist Uncertainties on Neural Density Ratios with wifi Ensembles

Speaker

Sean Benevedes

15:15-15:30

Jet Image Generation using Score Based and Consistency Diffusion Models

Speaker

Dr Vidya Manian

15:30-15:45

-

15:45-16:00

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16:00

Tuesday 20 May

14:00

Machine Learning: Data Applications

Session | **Location:** David Lawrence Hall 107, University of Pittsburgh

14:00-14:15

NomAD: Real-Time Unsupervised Anomaly Detection at the ATLAS Level-1 Trigger

Speaker

Rajat Gupta

14:15-14:30

Jet calibration with in-situ pileup suppression

Speaker

Stephen Roche

14:30-14:45

Learning the energy dependence and source brightness distribution of the Galactic Center Excess

Speaker

Eve Schoen

14:45-15:00

Isolating Unisolated Upsilon's with Anomaly Detection in CMS Open Data

Speaker

Rikab Gambhir

15:00-15:15

Baryon number violation searches with CUORE

Speaker

Vivek Sharma

15:15-15:30

Deep Learning Reveals Structure in Fast Radio Burst Signals

Speaker

Rohan Arni

15:30-16:00

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16:00