

Session Program

17-23 Aug 2025

ML4Jets2025

Uncertainties & Interpretability

California Institute of Technology, CHEN100
1200 E. California Blvd., Pasadena, California

Tuesday 19 August

14:00

Uncertainties & Interpretability

Session | **Location:** Broad 100, Chen Neuroscience Research Building | **Convener:** Prof. Mariel Pettee

14:00–14:20

Physics-guided Machine Learning in Cosmology [remote]

Speaker

Leonora KARDUM

14:20–14:40

Fair Universe HiggsML Uncertainty Challenge: Benchmark for Uncertainty-Aware Machine Learning in High Energy Physics

Speaker

Po-Wen Chang

14:40–15:00

Unbinned inclusive cross-section measurements with machine-learned systematic uncertainties

Speaker

Dr Claudius Krause

15:00–15:20

Tackling interpretability with physical baselines for Integrated Gradients [remote]

Speaker

Jai Bardhan

15:20