

Session Program

17-23 Aug 2025

ML4Jets2025

Unfolding & Inference

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

Wednesday 20 August

14:00

Unfolding & Inference

Session | **Location:** Broad 100, Chen Neuroscience Research Building | **Convener:** Eilam Gross

14:00-14:20

Data-Driven High Dimensional Statistical Inference with Generative Models

Speaker

Oz Amram

14:20-14:40

A High-Dimensional, Unbinned Standard Model Measurement with the ATLAS Experiment

Speaker

Mariel Pettee

14:40-15:00

Higgs Signal Strength Estimation with a Dual-Branch GNN under Systematic Uncertainties [remote]

Speaker

Daohan Wang

15:00-15:20

wifi Ensembles for Simulation-Based Inference with Systematic Uncertainties

Speaker

Sean Benevedes

15:20

Thursday 21 August

14:10

Unfolding & Inference

Session | **Location:** Broad 100, Chen Neuroscience Research Building | **Convener:** Aishik Ghosh

14:10-14:30 **Forward folding versus unfolding in the age of ML**

Speaker

Kevin Thomas Greif

14:30-14:50

Discriminative versus Generative Approaches to Simulation-based Inference

Speaker

Sascha Diefenbacher

14:50-15:10

On focusing statistical power for searches and measurements in particle physics

Speaker

James Carzon

15:10-15:30 **Generator Based Inference (GBI)**

Speaker

Alkaid Cheng

15:30