

Session Program

17-23 Aug 2025

ML4Jets2025

Invited Plenaries

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

Monday 18 August

09:40

Invited Plenaries

Session | **Location:** Chen 100, Chen Neuroscience Research Building | **Convener:** Jennifer Ngadiuba

09:40–10:20 **AI for gravitational waves**

Speaker

Philip Coleman Harris

10:20–11:00 **End-to-end particle reconstruction for current and future colliders**

Speaker

Eilam Gross

11:00

11:30

Invited Plenaries

Session | **Location:** Chen 100, Chen Neuroscience Research Building | **Convener:** Maurizio Pierini

11:30–12:10 **Progress on AI-based jet tagging**

Speaker

Javier Mauricio Duarte

12:10–12:50 **Uncertainty quantification in machine learning: A selective overview**

Speaker

Prasanth Shyamsundar

12:50

Tuesday 19 August

09:00

Invited Plenaries

Session | **Location:** Chen 100, Chen Neuroscience Research Building | **Convener:** Dr Jean-Roch Vlimant

09:00–09:40 **AI for particle accelerators [Remote]**

Speaker

Auralee Edelen

09:40–10:20 **Foundation models for astrophysics & cosmology [Remote]**

Speaker

Gautham Narayan

10:20

Wednesday 20 August

09:00

Invited Plenaries

Session | **Location:** Chen 100, Chen Neuroscience Research Building | **Convener:** Abhijith Gandrakota

09:00–09:40 **Likelihood free inference**

Speaker
Aishik Ghosh

09:40–10:20 **AI-driven detector design**

Speaker
Shah Rukh Qasim

10:20

Thursday 21 August

09:30

Invited Plenaries

Session | **Location:** Chen 100, Chen Neuroscience Research Building | **Convener:** David Shih

09:30–10:10 **AI-based end-to-end simulation**

Speaker

Andrea Rizzi

10:10–10:50 **AI at the extreme edge**

Speaker

Jannicke Pearkes

10:50

Friday 22 August

11:30

12:10

Invited Plenaries

Session | **Location:** Chen 100, Chen Neuroscience Research Building | **Convener:** Jennifer Ngadiuba

11:30-12:10

AI for Mathematics

Speaker

Ali Shehper