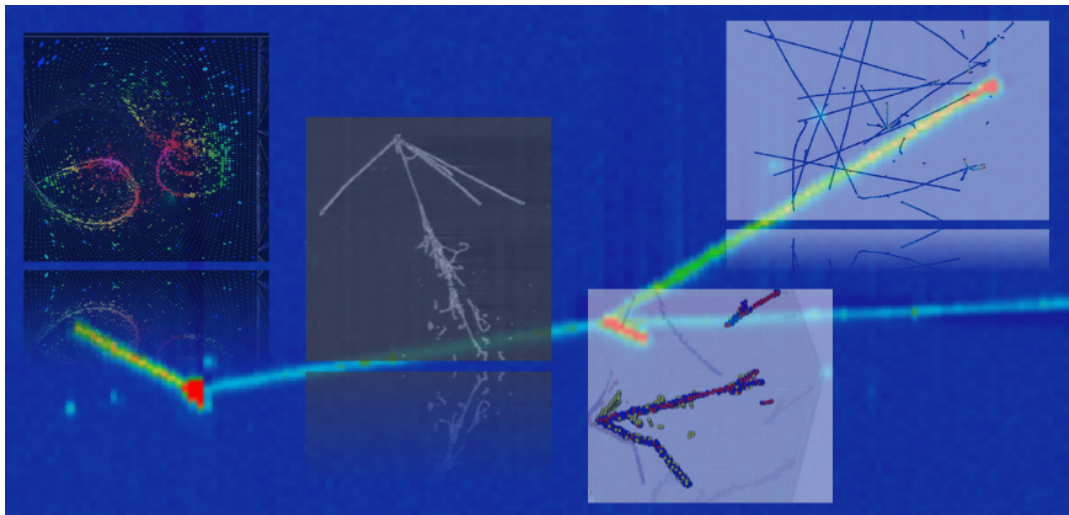


Session Program

15-19 Jun 2026



Neutrino Physics and Machine Learning 2026

Methods: Generative & Advanced Reconstruction Methods

UC Irvine, The Interdisciplinary Science and Engineering Building
419 Physical Sciences Quad, Irvine, CA 92697

Tuesday 16 June

13:50

Methods: Generative & Advanced Reconstruction Methods

Session |

Location: UC Irvine, The Interdisciplinary Science and Engineering Building , 419 Physical Sciences Quad, Irvine, CA 92697

13:50-14:10

Noise-Aware Representation Learning for Signal Reconstruction in Rare-Event Detectors

Speaker

Dowling Wong

14:10-14:15 **Q/A**

14:15-14:35

Data-Driven Generation and Inference of LArTPC Images Using Latent Diffusion Models

Speaker

Zeviel Imani

14:35-14:40 **Q/A**

14:40-15:00 **Coffee**

15:00-15:20

NuGraph3: Hierarchical GNN for Neutrino Physics Event Reconstruction

Speaker

Dr V Hewes

15:20-15:25 **Q/A**

15:25-15:55

Machine Learning Track Inference in the Dead Regions of DUNE's Near Detector Prototype: The Liquid Argon TPC Dead Region Inference Project

Speaker

Hilary Utaegbulam

15:55-16:05 **Q/A**

16:05-16:35

Exploring Generative Adversarial Networks for the simulation of neutrino scattering off nuclei and their adaptability to new data using transfer learning.

Speaker

Dr Jose Luis Bonilla Ramirez

16:35-16:45 **Q/A**

16:45