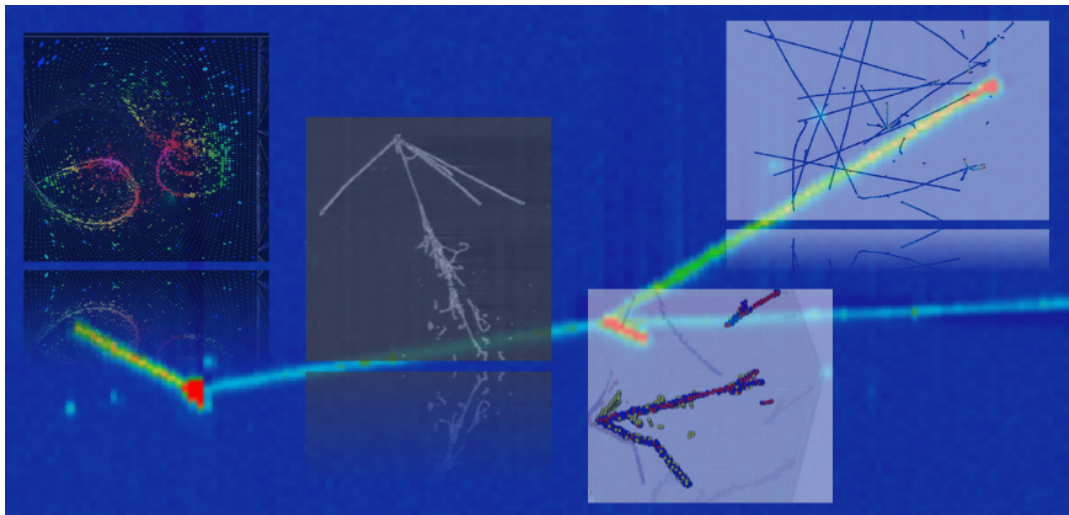


Session Program

15-19 Jun 2026



Neutrino Physics and Machine Learning 2026

Methods: Novel Architectures for Detector Geometries

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

Tuesday 16 June

09:00

Methods: Novel Architectures for Detector Geometries

Session |

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

09:00–09:30 **Deep learning for plenoptic neutrino event reconstruction**

Speaker

Dr Saul Alonso Monsalve

09:30–09:40 **Q/A**

09:40–09:55

Prong Segmentation using Point Set Transformers in Multiple View Neutrino Detectors

Speaker

Jiaxi Liu

09:55–10:00 **Q/A**

10:00–10:30

Dual-Temporal Attention for Direction Reconstruction in Liquid Scintillator Detectors under High-Scintillation Conditions

Speaker

Xiangyu Qin

10:30–10:40 **Q/A**

10:40–11:00 **Coffee**

11:00–11:15

RTE-cNSF: A Hybrid Physics-ML Architecture for Accurate Photon Timing in JUNO

Speaker

Qiyu Yan

11:15–11:20 **Q/A**

11:20–11:40

A Two-Stage Deep Learning Framework for Photomultiplier Tube Waveform Analysis

Speaker

LIANGBO HE

11:40–11:45 **Q/A**

11:45