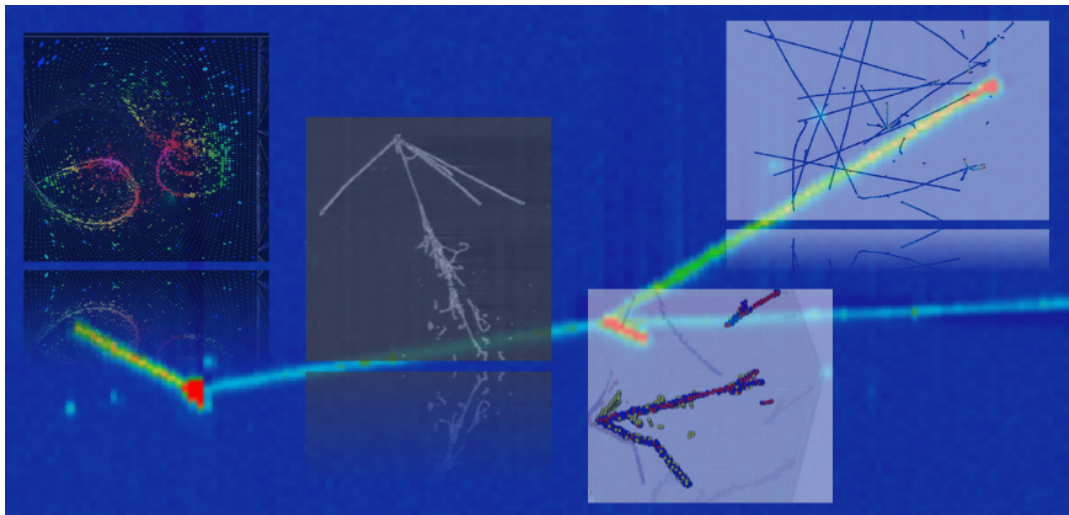


Session Program

15-19 Jun 2026



Neutrino Physics and Machine Learning 2026

Applications: Signal Processing & Physics Inference

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

Friday 19 June

09:00

Applications: Signal Processing & Physics Inference

Session |

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

09:00–09:20

Machine Learning Approaches for Online Supernova Neutrino Detection in DarkSide-20k

Speaker

Veronika Shalamova

09:20–09:25

Q/A

09:25–09:55

New Methods for Directional Inference in Antineutrino Detectors and Neutrino-Torsion Interactions in Core Collapse Supernovae

Speaker

Max Dornfest

09:55–10:05

Q/A

10:05–10:25

Coffee

10:25–10:45

Xenon Signal Denoising via Supervised, Semi-Supervised, and Unsupervised Models

Speaker

Grant Parker

10:45–10:50

Q/A

10:50–11:10

Searching for CP violation in Large Water Cherenkov Detectors with Normalising Flows

Speaker

Andrew Atta

11:10–11:15

Q/A

11:15