

Session Program

5-8 May 2026



AI for Gravitational Waves Workshop @ CERN

AI for real-time data processing

CERN, 40/S2-A01 - Salle Anderson

Wednesday 6 May

16:20

AI for real-time data processing

Session | Location: CERN, 40/S2-A01 - Salle Anderson

16:20-16:40 Machine Learning in LIGO: current and future applications

Speaker

Mr Siddharth Soni

16:40-17:00

Realtime search and inference of binary black holes in LVK data using AI

Speaker

Deep Chatterjee

17:00

Friday 8 May

09:00

AI for real-time data processing: Contributed Talks

Session | Location: CERN, 40/S2-A01 - Salle Anderson

09:00–09:20

★ **Scalable detection of long-duration gravitational wave signals from neutron star binaries in next-generation ground-based detectors** ★

Speaker

Martin Gerini

09:20–09:40

★ **BOAW: a neural network approach to combining multiple pipelines in gravitational-wave searches** ★

Speakers

Nikolas Moustakidis, Mr Theofilos Moustakidis

09:40–10:00

★ **Normalizing flows for complete parameter estimation on time-frequency representations of gravitational-wave data** ★

Speaker

Daniel Lanchares

10:00–10:20

GWEEP: A Deep Learning Toolkit for Low-Latency Gravitational-Wave Analysis

Speaker

Ana Caramete

10:20–10:40

The Present and the Future of Machine Learning for Multi-Messenger Astrophysics

Speaker

Michael Coughlin

10:40