

Session Program

1-7 Sept 2026



Sixth MODE Workshop on Differentiable Programming for Experiment Design *Applications in Astro-HEP and Neutrino Physics*

OAC conference center, Kolymbari, Crete, Greece.

Thursday 3 September

16:00

Applications in Astro-HEP and Neutrino Physics

Session | **Location:** OAC conference center, Kolymbari, Crete, Greece.

16:00–16:30

Optical Neutrino Telescope Design Optimization

Speaker

Mr Kristian Tchiorniy

16:30–17:00

A Forward-Folding Analysis Head for Neutrino Telescope Design Optimization

Speaker

Oliver Janik

17:00–17:30

Detector-ML co-design for tau-neutrino identification in a silicon pixel-tungsten detector

Speaker

Vincent Riechers

17:30

Saturday 5 September

09:00

Applications in Astro-HEP and Neutrino Physics

Session | **Location:** OAC conference center, Kolymbari, Crete, Greece.

09:00–09:30

Differentiable optimization pipeline for in-ice radio neutrino detectors

Speaker

Martin Ravn

09:30–10:00

End-to-end array layout optimization for the TAMBO experiment

Speaker

Izan Florez

10:00–10:30

Optimized Antenna Layouts for In-Ice Radio Neutrino Detectors

Speaker

Nicolai Weitkemper

10:30