

## Session Program

23-25 Sept 2024



## Fourth MODE Workshop on Differentiable Programming for Experiment Design

### *Nuclear Physics*

Valencia (Spain)

# Tuesday 24 September

16:30

## Nuclear Physics

**Session** | **Location:** Valencia (Spain) | **Convener:** Cesar Domingo Pardo

16:30–16:50 **Automated Design of Quantum Experiments**

**Speaker**

Mario Krenn

16:50–17:10

**Automatic optimization of a Parallel-Plate Avalanche Counter with Optical Readout**

**Speaker**

María Pereira

17:10–17:30

**Utilizing Neuronal Networks to Enhance the Application of Metallic-Magnetic Calorimeters for X-ray Spectroscopy**

**Speaker**

Mr Marc Oliver Herdrich

17:30–17:50

**Differentiable Deep Learning Surrogate Models applied to the optimization of the IFMIF-DONES facility**

**Speaker**

Galo Gallardo Romero

17:50–18:10 **Optimal design for experimental production of exotic hypernuclei**

**Speaker**

Samuel Escrig López

18:10