

# INTERNATIONAL PARTICLE PHYSICS MASTERCLASS

Thursday 28<sup>th</sup> March 2025, 09:00 – 16:30  
Institute for Particle Physics Phenomenology,  
Durham University

09:00 – 09:15

**Registration**

09:15 – 09:45

**Particle Physics Card Game**

09:45 – 10:15

**What is the world made of?**

An introduction to Particle Physics

10:15 – 10:45

**Why Neutrinos Matter?**

An introduction to neutrino physics and its detection

11:15 – 11:45

**How we conduct a Neutrino Measurement?**

Introduction to the hands-on activity and MINERVA neutrino detector

13:00 – 15:00

**Hands-on activity**

Working with the existing MINERVA data: be an experimental physicist for a day

15:00 – 16:00

**Share your Findings with Fermilab Scientists**

Video conference with Fermilab, USA

16:00 – 16:30

**Farewell**

The Organizing Committee:

Arturo De Giorgi, Aidin Masouminia, Dhruv Pasari, Jessica Turner