

## **Session Program**

**19-24 Nov 2023**



# **Quantum Techniques in Machine Learning (QTMML conference 2023)**

## ***QML for Physics***

CERN, 500/1-001 - Main Auditorium

# Thursday 23 November

15:30

## QML for Physics

**Session** | **Location:** CERN, 500/1-001 - Main Auditorium | **Convener:** Dr Sofia Vallecorsa

15:30-15:45

### Quantum anomaly detection in the latent space of proton collision events at the LHC

**Speaker**

Vasilis Belis

15:45-16:00

### Quantum data learning for quantum simulations in high-energy physics

**Speaker**

Dr Lento Nagano

16:00-16:15

### Ab initio Quantum Simulation of Strongly Correlated Materials with Quantum Embedding

**Speaker**

Jinzhao Sun

16:15-16:30

### Detection of quantum phase transitions with quantum machine learning techniques

**Speaker**

Antonio Mandarino

16:30-16:45

### Simulating dynamics of large quantum systems on small quantum devices using circuit knitting

**Speaker**

Gian Gentinetta

16:45-17:00

### Complete quantum-inspired framework for simulations of flows past immersed bodies

**Speaker**

Egor Tiunov

17:00