Session Program

4–5 Nov 2024

Workshop on Tensor Networks and (Quantum) Machine Learning for High-Energy Physics

Applications of Tensor Networks (TN) and Quantum Machine Learning (QML) to High-Energy Physics

CERN, 4/3-006 - TH Conference Room

Monday 4 November

09:00

Applications of Tensor Networks (TN) and Quantum Machine Learning (QML) to High-Energy Physics
Session | **Location:** CERN, 4/3-006 - TH Conference Room

09:30–10:00 **Welcome coffee**

10:00–10:05 **Welcome and introduction**

Speaker
Michelangelo Mangano

10:05–11:05

Quantum Machine Learning Integration in the High Energy Physics Pipeline

Speaker
Dr Michele Grossi

11:05–12:05 **TNS and the simulation of Lattice Gauge Theories**

Speaker
Mari Carmen Bañuls

12:05–13:05 **Discussion: Utilizing QML Algorithms within Tensor Networks**

13:05