



# International Conference on Quantum Technologies for High-Energy Physics (QT4HEP22)

## Wednesday 2 November 2022

### Computing & Algorithms - 500/1-001 - Main Auditorium (09:25 - 13:05)

-Conveners: Sofia Vallecorsa; Michele Grossi

time	[id] title	presenter
09:25	[2] QML Foundations: Building the case for QML in HEP	Prof. DUNJKO, Vedran
09:55	[3] Noise gates for quantum computing	Prof. BASSI, Angelo
10:25	[4] High Dimensional Quantum Computation	Dr CERVERA, Alba
10:55	Coffe break	
11:25	[6] QuantHEP – Quantum Computing Solutions for High-Energy Physics	Prof. OMAR, Yasser
11:45	[7] Applications of quantum computing to HEP: Recent Projects in ICEPP	Dr NAGANO, Lento
12:05	[8] An LHC application of Quantum Machine Learning and INFN summary	ZULIANI, Davide
12:25	[17] Quantum generative models in HEP	Dr DELGADO, Andrea
12:45	[18] Hybrid variational classical-quantum computing, the machine learning way	Prof. CARLEO, Giuseppe

### Computing & Algorithms - 500/1-001 - Main Auditorium (14:20 - 15:00)

time	[id] title	presenter
14:20	[73] Quantum Valley Lower Saxony - Quantum Computers with Stored Ions	Dr KRINNER, Ludwig
14:40	[5] CERN QTI Algorithm overview	GROSSI, Michele