



# Quantum Computing and Quantum Machine Learning Algorithms for High Energy Physics

## Thursday, 2 June 2022

### Parallel Session (09:00 - 11:05)

-Conveners: Yen-Chi Chen

time	[id] title	presenter
09:00	[9] Application of Quantum Machine Learning at the LHC	SUN, Shaojun
09:20	[10] Quantum K-Means Algorithm for Signal Processing and Quantum Entanglement in Higgs Boson Decay to Four Leptons	QENANI, Daniel
09:40	[13] Implementation and Analysis of Quantum Search Methods for Higgs Boson Reconstruction at the LHC	ARMENAKAS, Anthony
10:00	[14] Matrix Model simulations using Quantum Computing, Deep Learning, and Lattice Monte Carlo	FENG, Yuan
10:20	[8] Quantum Anomaly Detection for Collider Physics	Mr SULAIMAN, Avli