

CERN QTI Community Workshop

Friday, December 10, 2021

Project and collaboration proposals: Project and collaboration proposals - Zoom (10:30 AM - 11:45 AM)

-Conveners: Michele Grossi; Sofia Vallecorsa; Alberto Di Meglio

time	[id] title	presenter
10:45	[10] An INFN-CERN collaboration towards the usage of IBM quantum resources	BOZZI, Concezio
10:50	[11] Development of quantum machine learning algorithms to study Higgs boson decays with the LHCb detector	LUCCHESI, Donatella
10:55	[12] theory-informed classification of proton-proton collisions with quantum machine learning tools	GOVONI, Pietro
11:00	[13] Co-designing near-term quantum architecture for HEP applications	TERASHI, Koji
11:05	[14] Application of the quantum machine learning on the particle identification at the BESIII experiment	Dr LI, Teng
11:10	[15] Particle ID with timing using quantum algorithms	POTAMIANOS, Karolos DOBOS, Daniel NOVOTNY, Kristiane
11:15	[16] Quantum walks in high energy physics	MALIK, Sarah
11:20	[17] Noise Gates	Mr DI BARTOLOMEO , Giovanni Mr VISCHI , Michele
11:25	[18] Simulating a quantum battery on an quantum computer	Dr GROSSI, Michele
11:30	[19] Quantum Algorithms for Manifold Learning	KUMAR, Akshat
11:35	[20] Introduction to Quantum Computing for High School Students	ALANDES PRADILLO, Maria