

2022 CERN openlab Technical Workshop

Wednesday, 23 March 2022

Quantum Technology Initiative - Computing and Communications - Zoom (13:30 - 16:10)

-Conveners: Sofia Vallecorsa; Alberto Di Meglio

time	[id] title	presenter
13:30	[36] Introduction to the Quantum Technology Initiative	DI MEGLIO, Alberto
13:40	[43] Gradient of cost function for general ansatz in variational quantum algorithms	NAGANO, Lento
13:50	[40] Physics searches with quantum classifiers and anomaly detection at the LHC	BELIS, Vasilis
14:00	[41] Quantum Reinforcement Learning for Beam Steering	SCHENK, Michael
14:10	Q&A;/break	
14:20	[42] Quantum Simulation of neutrino-nuclei scattering	KISS, Oriel Orphee Moira
14:30	[38] Quantum GAN	REHM, Florian
14:40	[57] Quantum kernels studies	DI MARCANTONIO, Francesco
14:50	[44] Quantum self-attention mechanism	PASQUALI, Dominic
15:00	[58] QML: Connecting the dots	GROSSI, Michele
15:20	Q&A;/break	
15:30	[45] Panel: QC for HEP: Challenges and opportunities. Panelists: Stefano Carrazza (U. Milano), Elias Combarro (U. Oviedo) , Donatella Lucchesi (U. Padova), Ivano Tavernelli (IBM)	