Session Program

1-4 Nov 2022

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

Industry & Entrepreneurship

CERN, 500/1-001 - Main Auditorium

Thursday 3 November

09:00-09:05	Welcome
09:05-09:35	The Quantum Landscape - Keynote
Speaker Grégoire Ribord	у
09:35-09:55	
The ATIQ pr	oject: collaborative development of trapped-ion quantum compute
Speaker Celeste Torkzab	an
09:55-10:15	Developing instrumentation for Quantum Computers
Speaker Moritz Kirste	
10:15-10:35	Ion traps and the road to fault tolerant quantum computing
Speaker Cornelius Hemp	el
10:35-11:00	Coffee break
11:00-11:20	Trapped ions quantum computing - challenges and perspectives
Speaker Anna Kaminska	
11:20-11:40	Analog quantum computing: from the lab to the industry
Speaker Marta Estarellas	
11:40-12:00	What's so special about diamonds?
Speaker Mark Mattingley	-Scott
12:00-12:20	PASQAL neutral atom arrays processors and their applications
Speaker Louis Vignoli	
12:20-12:40	The potential of quantum computing for drug development
Speaker	

	Speaker Simone Montangero
	13:00-14:00 Lunch
	14:00-14:20 Measuring brain function using quantum sensors - ONLINE TALK
	Speaker Matthew Brookes
	14:20-14:40 Intel Quantum SDK: A Platform for Efficient Execution of Variational Algorithms
	Speaker Gian Giacomo Guerreschi
	14:40-15:00 Quantum vs classical: assessing quantum advantage
15:00	Speaker Thomas Ayral