

ESA Workshop

Wednesday 3 April	
09.00-09.30	Registration and Coffee break
09.30-09.40	Welcome and Introduction
09.40-09.55	Earth Observation Opportunities and Challenges Chris Stewart, Sveinung Loekken, Gordon Campbell, <i>European Space Agency</i>
09.55-10.10	Quantum Information Processing: Opportunities and Challenges Mauro Paternostro, <i>Queen's University Belfast</i>
10.10-10.30	Quantum Resources for EO Technology Mihai Datcu, <i>German Aerospace Agency (DLR)</i>
10.30-10.50	Quantum Computing for EO Mission Planning Mathieu Picard <i>Airbus</i>
10.50-11.10	HPC for Spacestream: The Future of EO! Cristoforo Abbattista, <i>Planetek</i>
11.10-11.40	Coffee break
11.40-12.00	Quantum Computing for Aerospace Applications Tobias Stollenwerk, <i>German Aerospace Agency (DLR)</i>
12.00-12.20	Deep Learning for Earth Observation Andrea Pomente & Leonardo De Laurentiis, <i>University of Rome Tor Vergata</i>
12.20-13.40	Lunch
13.40-14.10	From Quantum Machine Learning to Quantum AI Vedran Dunjko, <i>Leiden University</i>
14.10-14.40	Quantum Machine Learning with Quantum Technologies Lucas Lamata, <i>University of the Basque Country</i>
14.40-15.00	The Born Supremacy: The Training and Quantum Advantage of the Ising Born Machine Learning Daniel Mills, <i>The University of Edinburgh</i>
15.00-15.20	Integrated Photonic Platform for Quantum Machine Learning Nicolò Spagnolo, <i>La Sapienza Università di Roma</i>
15.20-16.00	Panel discussion and closing remarks