

### Opening Session

09:15-09:30	Welcome by <i>Nicoletta Wagner and Christophe Honvault</i>	Chair: Jose Pizarro
09:30-10:15	Keynote: Quantum Computing for Earth Observation: The ESA $\Phi$ -lab's Initiatives by <i>Gabriele Meoni</i>	
10:15-10:45	Coffee Break	

### Session 1: Fundamentals

10:45-11:15	Encoding Astrodynamics Problems on Quantum Hardware by <i>Waldemar Martens</i>	Chair: Max Bannach
11:15-11:45	Noisy Quantum Circuit Simulation via Automated Reasoning by <i>Dolf Huybrechts</i>	
11:45-12:15	Quantum Circuit Synthesis Beyond Reinforcement Learning by <i>Thore Gerlach</i>	
12:15-14:00	Lunch Break	

### Session 2: Distributed Quantum Computing

14:00-14:30	Quantum Metrology for Distributed Quantum Computing by <i>Richard Murchie</i>	Chair: Diane Magnin
14:30-15:00	Satellite-Distributed Entanglement for Future Quantum Datacenter Interconnects by <i>Thomas Scarinz and Victor Virag</i>	
15:00-15:30	Coffee Break	

### Session 3: To the Stars and Beyond

15:30-16:00	A Generalized Quantum Causal Model Beyond Matrix Representations by <i>Théo Verhelst</i>	Chair: Jose Pizarro
16:00-16:15	Quantum Algorithms Meet Space: Solving a Real ESA Challenge by <i>Christopher Vasko</i>	
16:15-17:00	Quantum Town Hall and Event Closure Quantum in Space: Where does ESA go from here?	