

## Schedule of presentations

### Tuesday, July 18.

1. **Classical Cost of Transmitting a Qubit.** Óscar Rodríguez Ríos.
2. **Duality between quantum teleportation and superdense coding.** Ariadna León Quirós.
3. **Antidistinguishability.** Huyue Yan.
4. **Quantum Copying Machines.** Shrish Roy.
5. **Lieb-Robinson Bounds.** Carla Rubiliani.

### Wednesday, July 19.

1. **Experimental verification of Bell inequalities.** Jonte Weixler.
2. **Hamiltonian simulation via block encoding.** Manuel Lubetzki.
3. **The HHL algorithm.** Moritz Brösamle.
4. **Quantum walk algorithms.** Sebastian Krüger.
5. **Introduction to post-quantum cryptography. Code-based cryptography.** Julian Nill.

### Tuesday, July 25.

1. **Quantum complexity theory.** Levin Stuke.
2. **Linear growth of quantum circuit complexity.** Alessandro Petrarolo.
3. **Turing Machines.** Valeria Schmidt.
4. **Quantum Machine Learning.** Georg Tirpitz.
5. **Fisher information.** Simon Höfer.

### Wednesday, July 26.

1. **Introduction to post-quantum cryptography. Hash-based cryptography.** Anna Francesca Maggioli.
2. **Introduction to post-quantum cryptography. Lattice-based cryptography.** Pilar Gil Fernández.
3. **Harmonic Oscillator Quantum Computer.** Vasin Phumimas.
4. **Optical cavity quantum electrodynamics.** Mohamed Youssef.
5. **Non-local games.** Joe Francis.