

| On-site                    | Date (CEST TIME)    | Speaker name              | Tentative title  |
|----------------------------|---------------------|---------------------------|--|
| Virtual                    | Monday, 13th        |                           |  |
| Tutorial                   | 9:30-10:30          |                           |  |
| Meet the industry/outreach | 10:30-11:30         | Dott. Ivry                | Single-photon detectors and implementation in photonic quantum computers: a review   |
| To be confirmed            | 11:30-12:30         | Dott. Carla Cirillo       |  |
| TALKS                      | 12:30-13:30         |                           | Materials for single-photon detectors  |
|                            | <i>Lunch break</i>  |                           |  |
|                            | 14:30-15:00         | Dott. Daniela Salvoni     | From the academy to the industry: Photec/Single Quantum  |
|                            | 15:00-16:00         | Dott. Yu. Vodolazov       | Single-photon detectors and physical mechanisms  |
|                            | 16:00-17:00         |                           |  |
|                            | 17:30-18:45         |                           |  |
|                            | Tuesday, 14th       |                           |  |
|                            | 9:30-10:30          | Dott. Martina Esposito    | Superconducting parametric amplifiers for quantum technologies   |
|                            | 10:30-11:30         |                           |  |
|                            | 11:30-12:30         | Dr. Simone Gasparinetti   | Superconducting qubits for single photon detection   |
|                            | 12:30-13:30         |                           |  |
|                            | <i>Lunch break</i>  |                           |  |
|                            | 14:30-15:30         | Dott. Oleg Mukhanov       | Superconducting electronics for the control and the read-out of qubits: the SFQ logic  |
|                            | 15:30-16:30         |                           |  |
|                            | <i>Coffee break</i> |                           |  |
|                            | 17:30-18:00         | Dott. Matthew Hutchings   | From the academy to the industry: Seeqc  |
|                            | 18:00-18:45         |                           | ATTENDEES SHORT TALKS (50 minutes: 5 minutes per each - 9 people)  |
|                            | Wednesday, 15th     |                           |  |
|                            | 9:30-10:30          |                           | An introduction to superconducting quantum processors. From the qubit to the scalability challenge, covering readout, tunable couplers, and two-qubit gates. |
|                            | 10:30-11:30         | Dott. Stefano Poletto     |  |
|                            | <i>Coffee break</i> |                           |  |
|                            | 12:00-12:30         | Dott. H.A.                | The role of quantum technologies students and young researchers in outreach events   |
|                            | <i>Lunch break</i>  |                           |  |
|                            | 14:30-15:30         | Dott. Caleb Jordan        | TUTORIAL: Simulation tools for circuit design  |
|                            | 15:30-16:30         |                           |  |
|                            | 16:30-17:30         |                           |  |
|                            | 18:00-18:45         |                           |  |
|                            | Thursday, 16th      |                           |  |
|                            | 9:30-10:30          | Fabio Chiarello           | Fabrication Techniques for Superconducting Quantum Systems   |
|                            | 10:30-11:30         | dott Davide Massarotti    | Macroscopic quantum Phenomena in Josephson junctions   |
|                            | 11:30-12:30         | Dott. Domenico Montemurro | Interface phenomena in Josephson junctions   |
|                            | 12:30-13:30         |                           |  |
|                            | <i>Lunch break</i>  |                           |  |
|                            | 14:30-15:30         | Dott. Marco Arzeo         | TUTORIAL: Methods for control and readout of superconducting qubits  |
|                            | 15:30-16:30         | Prof. Pascal Febvre       | An overview of tools and techniques to design superconducting electronics circuits   |
|                            | 17:00-17:30         |                           |  |