



the 3rd General Assembly
16 September, 2016
Room A210, Polo Scientifico e Tecnologico Fabio Ferrari (Povo 1)
Via Sommarive 5, Trento

September 16, 2016 (Room A210)

9.00 – 09.20 **Welcome remarks**
Coordinator of the project Lorenzo Pavesi

WP1:

09.20 – 09.40 Georg Pucker **WP1 Overview and Progress report** , FBK

09.40 – 10.00 Martino Bernanrd **Developments, results, next steps**, FBK

WP2:

10.00 – 10.20 Mattia Mancinelli **Overview and Progress report**, UNITN

10.20 – 10.30 Massimo Borghi **Design and simulation of silicon on insulator reconfigurable quantum circuits**, UNITN

10.30 – 10.40 Stefano Signorini **Multi-modal Four Wave Mixing for entangled photons generation and wavelength conversion in silicon waveguides**, UNITN

10.40 – 10.50 Claudio Castellan **Phase matched second harmonic generation in silicon waveguides strained by silicon nitride**, UNITN

10.50 - 11.00 Alessandro Trenti **Mid-infrared coincidence measurements on twin photons at room temperature**, UNITN

11.00 – 11.20 Coffee break

WP3:

11.20 – 11.30 Nicola Zorzi **Overview and Progress report**, FBK

11.30 – 11.45 Mher Ghulinyan **Wedge terminating guides for integration with SPADs** , FBK

11.45 - 12.00 Fabio Turri **SiN multilayer waveguides for MIR generation: simulation, fabrication and experimental set-up**, UNITN

WP4:

12.00 – 12.10 Nicola Massari, **Overview and Progress report**, FBK

12.10 – 12.25 Alessandro Tomasi **Stochastic modeling of the SiQuro QRNG**, UNITN

12.25 – 12.40 Zahra Bisadi **Robust random number generation with silicon nanocrystals coupled with SiPM**, UNITN

12.40 – 14.00 **Lunch**

WP5:

14.00 – 14.15 Iacopo Carusotto **Thermalization and evaporative cooling of fluids of light in waveguides**, INO-CNR, BEC

14.15 - 14.30 Marco Di Liberto, **Interplay of topology and interactions in a system of linear coupled waveguides**, INO-CNR, BEC

14.30 – 14.45 Fabio Turri **Interferometric characterization in integrated photonic devices: from reactive coupling to Bogoliubov dispersion**, UNITN

WP6:

14.45 – 15.00 Martin Kroner **Experimental realization of an artificial gauge field for photons**, ETH

15.00 -15.10 Mher Ghulinyan **High-Q photonic wire microcavities with shielded sidewall loss**, FBK

15.10 - 15.20 Grazia Salerno **Theory and experiments with classical topological systems**, INO-CNR, BEC

15.20 – 15.30 Tomoki Ozawa **Synthetic dimensions in photonics**, INO-CNR, BEC

15.30 – 15.50 **Coffee break**

WP6:

15.50 – 18.20 WP leaders – next actions (15 minutes per each WP)

18.20 - 18.30 Wrap-up Lorenzo Pavesi

18.30 – 19.30 Steering Committee Meeting