

CNR - IFN, Integrated Quantum Photonics

Tue, 2016-10-04 23:52 - [Roberto Osellame](#) [1] **Website:**
<http://www.mi.ifn.cnr.it/> [2]

Research Type: Experiment

We use light to fabricate and characterize integrated quantum photonic components. In particular, we use femtosecond laser pulses to produce photonic circuits in transparent materials, as glasses and crystals, for quantum applications. Recent work focussed on the development of photonic circuits in glass for the manipulation of single photons, in crystal for the demonstration of quantum memories and in diamond for a photonic interface with color-center defects. We use ultrafast laser pulses for the characterization of single photon sources based on 2D materials. We fabricate by Molecular Beam Epitaxy single photon emitters based on semiconductor quantum dots.

Leader: Roberto Osellame

Location

CNR - Istituto di Fotonica e Nanotecnologie Piazza Leonardo da Vinci, 32
Milano 20133 Italy
45° 28' 43.6692" N, 9° 13' 39.972" E

- [Quantum Communication](#) [3]
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