

Quantum, nonlinear and bio-photonics at the University of Insubria

Marco Lamperti
Dipartimento di Scienza e Alta Tecnologia
Università degli Studi dell'Insubria

Abstract:

The recently funded Como Lake Institute of Photonics, part of the University of Insubria, collects the many theoretical and experimental groups performing research in optics and photonics within the University. In this seminar I will present the activities of the INSIGHT and INSPECT groups, which span from quantum and nonlinear optics to biophotonics and molecular spectroscopy.

The core research lines involve quantum nonlinear optics in the mesoscopic photon regime, employing photon-number-resolving detectors, and advanced fluorescence spectroscopy to study biomolecules conformational dynamics and new materials. Beside these consolidated activities, we are exploring the development of microcavities for quantum engineering, and Raman spectroscopy to complement light scattering and fluorescence spectroscopy for the investigation of biomolecules and complex materials.

Seminario

Mercoledì 18 febbraio 2026
Aula 26, ore 11.30
Università Cattolica del Sacro Cuore
via Garzetta 48, Brescia

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