



DIPARTIMENTO DI SCIENZE
MATEMATICHE E INFORMATICHE,
SCIENZE FISICHE E SCIENZE DELLA TERRA
Dottorato di Ricerca in Fisica

Seminario Dottorato di Ricerca in Fisica

05 Novembre 2024 ore 16.00

Aula Leonardo – Edificio A – Polo Papardo

***Quantum Information and Machine Learning-based Signal Processing
using Integrated Photonics***

Prof. Roberto Morandotti

Energy Materials Telecommunications Department of the Institut National de la Recherche Scientifique (Varenes, Canada).

Topic: Integrated photonics advances emerging machine learning and quantum information processing technologies.

This work employs on-chip, reconfigurable devices for highly efficient, intelligent, and secure classical and quantum signal processing. We demonstrate simultaneous operations with high speed, low power consumption, and small footprints, paving the way for next generation telecommunication solutions.

Dipartimento MIFT

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