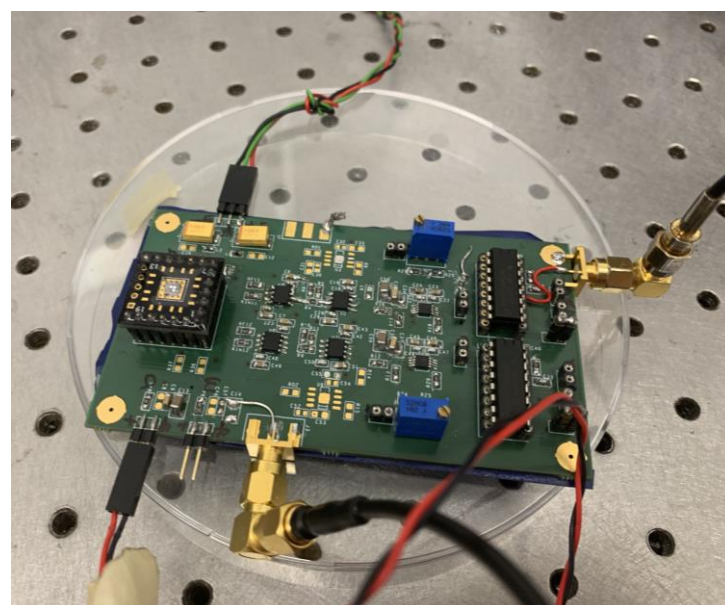


Inauguration of the Transdisciplinary PhD program in Quantum Sciences and Technologies



Quantum Random Number generator

July 10, 2019 – h 10.00

(Room A207 – Polo Ferrari 1)

10.00

Presentation of the TPQST - Transdisciplinary Program in Quantum Sciences and Technologies

Lorenzo Pavesi, Iacopo Carusotto, Gianluigi Casse, Francesco Pederiva

10.30

Demonstration of the Quantum Random Number generator

Nicolo' Leone (TPQST PhD student)

11.00: Coffee break

11.30

Colloquium: **Topological Photonics**

Alexander Szameit (Institute of Physics, University of Rostock, Germany)

Abstract: "In the context of photonics, topology has emerged as an abstract, yet surprisingly powerful, new paradigm for controlling the flow of light. As such, it holds great promise for a wide range of advanced applications, from scatter-free routing and switching of light along arbitrary three-dimensional trajectories to long-distance transmission of slow-light waves. In my talk, I will present an introduction to topology in photonics, with a particular focus on our work on the implementation of photonic Floquet topological insulators. The purpose is to review these and other recent developments, to discuss potential applications and to stimulate new conceptual ideas."

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