



**UNIVERSITÀ
DI TRENTO**

QUANTUM SCIENCE AND TECHNOLOGY TRANSDISCIPLINARY PROGRAMME

SUGGESTED OPTIONAL COURSES

- Integrated classical and quantum photonics, Lorenzo Pavesi (Ph.D. in Physics)
- Advanced Interferometry, Antonio Perreca (Ph.D. in Physics)
- Quantum Optics, Iacopo Carusotto (Master in Physics)
- Quantum Mechanics, Fields and Symmetries, Winfried Leidemann (Master in Physics)
- Quantum Gases and Superfluidity, Stefano Giorgini (Master in Physics)
- Quantum Field Theory I, Albino Perego (Master in Physics)
- Quantum Field Theory II, Luciano Vanzo (Master in Physics)
- Ultracold Atoms, Giacomo Lamporesi - Alessio Recati (Master in Physics)
- Atomic Physics, Gabriele Ferrari (Master in Physics)
- Silicon Radiative Sensors, Gian-Franco Dalla Betta (PhD in MMSE)
- Imaging Sensors, Lucio Pancheri (PhD in MMSE)
- Optical Properties of Nanomaterials, Alberto Quaranta (PhD in MMSE)
- Tensor Decomposition for Big Data Analysis, Alessandra Bernardi (Master in Mathematics)
- Requirements Engineering, A. Perini - A. Susi (PhD in ICT)
- Computing in Communication Networks, F. Fitzek - F. Granelli (PhD in ICT)
- Deep models for Spoken Language Translation, M. Turchi - M. Federico (PhD in ICT)
- Entanglement in many-body systems: from concepts to algorithms, Matteo Rizzi (Humbolt Fellow at BEC Center)