



Transdisciplinary programme in Quantum Science and Technologies

PhD 34° cycle

PhD	PhD programme	Title of the Thesis	Tutor	Co-tutor	Graduation year
Leone Nicolò	Physics	A quantum entropy source based on Single Photon Entanglement	L. Pavesi	S. Mazzucchi	2022
Munoz de las Heras Alberto	Physics	Non-Hermitian and Topological Features of Photonic Systems	I. Carusotto	L. Pavesi	2022
Rocuzzo Santo Maria	Physics	Supersolidity in a Dipolar Bose Gas	A. Recati	S. Stringari	2021
Sighinolfi Matteo	Physics	Open Quantum Systems and Ultracold Atoms	A. Recati	P. Faccioli	2022
Turro Francesco	Physics	Quantum algorithms for many-body structure and dynamics	F. Pederiva	I. Carusotto	2022
Wolswijk Louise	Physics	Equilibrium and out-of-equilibrium physics of Bose gases at finite temperature	G. Ferrari	G. Lamporesi	2022
De Lazzari Claudia	Mathematics	Algebraic, geometric and numerical methods for Tensor Network Varieties	A. Bernardi	I. Carusotto	2022



PhD 35° cycle

Contessi Daniele	Physics	Data driven approach to detection of quantum phase transitions	A. Recati	E. Ricci	2023
Franchi Riccardo	Physics	The taiji and infinity-loop microresonators: examples of non-hermitian photonic systems	L. Pavesi	M. Ghulinyan	2023
Luchi Piero	Physics	Machine-Aware Enhancing of Quantum Computers	F. Pederiva	S. Taioli	2023
Mildenberger Julius	Physics	Towards Error-Resilience in Quantum Simulation of Lattice Gauge Theories	P. Hauke	I. Carusotto	2023
Nardin Alberto	Physics	Linear and nonlinear edge dynamics and quasiparticle excitations in fractional quantum Hall systems	I. Carusotto	P. Hauke	2023
Piccioli Francesco	Physics	Topological photonics in guided wave geometries A topological toolbox or signal processing	I. Carusotto	A. Szameit	2023
Povolo Luca	Physics	Design of a positron beam for the study of the entanglement in three gamma-rays generated by positronium annihilation	R.S. Brusa	L. Pancheri	2023
Uhrich Philipp	Physics	Towards Quantum Simulation of the Sachdev–Ye–Kitaev Model	P. Hauke	I. Carusotto	2023