

PhD Physics – 30th Cycle

Name and Surname	Title of the Thesis	Tutor	Graduation year
Cernuto Andrea	Dissociative charge transfer of organic molecules induced by collisions with the He ⁺ cation. A joint experimental and theoretical study of relevance for the interstellar medium evolution	D. Ascenzi	2017
Chalyan Tatevik	Optical biosensors for mycotoxin detection in milk	L. Pavesi	2018
Chinaglia Stefano	The Singularity Problem in Gravitational Theory. The Spherically Symmetric Case	M. Rinaldi	2018
Colzi Giacomo	A new apparatus to simulate fundamental interactions with ultracold atoms	G. Ferrari	2018
Dallari Francesco	Slow dynamics in colloids and network glasses close to the structural arrest: the Stress-relaxation as a root to equilibrium	G. Monaco	2018
Fava Eleonora	Static and dynamics properties of a miscible two-component Bose–Einstein Condensates	G. Ferrari	2018
Gatti Nicola	Laser spectroscopy in nonequilibrium cold plasma	P. Tosi - G. Van Rooij	2018
Guatieri Francesco	Production and excitation of cold Ps for H formation by charge exchange: towards a gravitational measurement on antimatter	R. S. Brusa	2018
Larcher Fabrizio Joint Degree con Newcastle	Dynamical excitations in low dimensional condensates: sound, vortices and quenched dynamics	F. Dalfovo	2018
Lebreuilly Josè	Strongly correlated quantum fluids and effective thermalization in non Markovian Driven-dissipative photonic systems	I. Carusotto	2017
Melati Alberto	Renormalization of Wick polynomials for boson fields in locally covariant AQFT	V. Moretti	2018



PhD Programme in Physics

Regazzoni Veronica	Development of a Gamma-Ray Detector based on Silicon Photomultipliers for Prompt Gamma Imaging and High-Energy Spectroscopy	A. Gola	2017
Roilo David	Gas transport properties and free volume structure of polymer nanocomposite membranes	R. Checchetto	2017
Rosi Tommaso	Digital Physics Education. Personal devices, mediated reality, serious gaming	S. Oss	2017
Trenti Alessandro	Generation, manipulation and detection of NIR and MIR entangled photon pairs	L. Pavesi	2018