

PhD Physics – 31st Cycle

Name and Surname	Title of the Thesis	Tutor	Graduation year
Andreatta Paolo	Beryllium-9 in Cluster Effective Field Theory	W. Leidemann	2019
Andreoli Lorenzo	A Quantum Monte Carlo approach to dark matter-nuclei interaction	F. Pederiva	2019
Bertolla Maddalena	On-Line Sensing of the Interlacing Process	M. Scotoni	2019
Castellan Claudio	Second order nonlinearities in silicon photonics	L. Pavesi	2019
Chiari Diana Elisa	Network identification via multivariate correlation analysis	L. Ricci	2019
Colleaux Aimeric	Regular Black Hole and Cosmological Spacetimes in Non-Polynomial Gravity Theories	S. Zerbini	2019
Di Giovanni Matteo	A method for estimating tidal deformability of binary neutron stars in LIGO-Virgo detectors using minimal assumptions	G. Prodi	2019
Endrizzi Andrea	Investigating the Effects of Magnetic Fields and Microphysics in Binary Neutron Star Mergers	B. Giacomazzo	2018
Marcante Marco	Development and characterization of SIPMs for cryogenic applications	C. Piemonte - A. Gola	2019
Mordini Carmelo	Measurement of the density profile of quantized vortices and of the equation of state in a 3D interacting Bose gas	G. Ferrari	2019
Orioli Simone	Generating and Validating Transition Path Ensembles of Protein Folding	P. Faccioli	2019
Parisi Luca	Mixtures of ultracold Bose gases in one dimension A Quantum Monte-Carlo study	S. Giorgini	2019



PhD Programme in Physics

Piotto Chiara	Nanostructured materials for hydrophobic drug delivery	P. Bettotti	2019
Signorini Stefano	Intermodal four wave mixing for heralded single photon sources in silicon	L. Pavesi	2019