

PhD Physics – 29th Cycle

Name and Surname	Title of the Thesis	Tutor	Graduation year
Bartali Ruben	Wettability of graphitic materials and development of graphene layer as barriers to prevent the surface degradation induced by water	N. B. Laidani	2018
Bernard Martino	Lightwave circuits for integrated Silicon Photonics	M. Ghulynian	2017
Bisadi Zahra	All-Silicon-Based Photonic Quantum Random Number Generators	L. Pavesi	2017
Contessi Lorenzo	Pionless effective field theory: Building the Bridge Between Lattice Quantum Chromodynamics and Nuclear Physics	F. Pederiva	2017
De Rosi Giulia	Collective oscillations of a trapped atomic gas in low dimensions and thermodynamics of one-dimensional Bose gas	S. Stringari	2017
Dimiccoli Francesco	Measure of deuterons flux and deuterons over protons ratio in cosmic rays with the AMS-02 experiment	I. Lazzizzera	2017
Ferrari Ruffino Fabrizio	Non-Symmetrized Hyperspherical Harmonics Method Applied to Light Hypernuclei	G. Orlandini	2017
Giusteri Roberta	Parabolic flights in pico-g for space-based gravitational wave observatories: the free-fall experiment on LISA Pathfinder	S. Vitale	2017
Gorrini Federico	Nanodiamonds for biological applications: synthesis by laser ablation and sensing of local magnetic environment by optical spectroscopy of NV centers	A. Miotello	2018
Kawamura Takumu	General Relativistic Magnetohydrodynamic Simulations of Binary Neutron Star Mergers	B. Giacomazzo	2017
Mazzi Alberto	Modeling and production of metal nanoparticles through laser ablation and applications to photocatalytic water oxidation	A. Miotello	2017

PhD Programme in Physics

Moggio Lorenzo	Design and experimentation of communication and of a teaching sequence on atmospheric physics / Ricerca, comunicazione e proposte didattiche tra fisica e scienze dell'atmosfera e del clima.	S. Oss	2017
Pintori Giovanna	Relaxation dynamics in borate glass formers probed by photon correlation at the microscopic and macroscopic length scale	G. Monaco	2017
Rabochaya Yevgeniya	Some aspects in cosmology: Quantum fluctuations in non flat FRLW space -time and gravitational mimetic models	S. Zerbini	2017
Schiavo Loredana	Synthesis and Characterization of Nanostructured Materials for Hydrogen Storage Applications	A. Miotello	2017
Serafini Simone	Dynamics of vortices and their interactions in Bose-Einstein Condensates	G. Ferrari	2017
Tringali Mariaconcetta	Analysis methods for gravitational wave from binary neutron star coalescences: investigation on the post-merger phase	G. A. Prodi	2017
Turri Fabio	Experiments and modelling of vertically coupled microresonators	L. Pavesi	2017
Ullah Hafeez	Decoration of graphene sheets with metal and metal oxide nanostructures by low pressure plasma deposition	N. B. Laidani	2017
Zappalà Gaetano	Characterisation of Silicon Photomultipliers for the detection of Near Ultraviolet and Visible light	N. Zorzi	2017