



PhD Physics – 32nd Cycle

Name and Surname	Title of the Thesis	Tutor	Graduation year
Abrusci Gianfranco	Advanced MD simulations for membrane proteins: conformational changes, aggregation and lipid interactions	G. Lattanzi	2020
Basso Luca	Laser-synthesis and optical functionalization of NV-fluorescent nanodiamonds for quantum sensing applications	A. Miotello	2020
Biasi Stefano	Light propagation in confined photonic structures: modeling and experiments	L. Pavesi	2020
Caporaletti Federico	Atomic dynamics in glass-forming liquids during the Johari-Goldstein relaxation	G. Monaco	2020
Castelli Eleonora	LISA Pathfinder noise performance results: disturbances in the sub-mHz frequency band and projection to LISA	S. Vitale	2020
Follega Francesco Maria	Search for boosted Higgs bosons decaying to b-quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector	R. Iuppa	2020
Macaluso Elia	Probing Quasihole and Edge Excitations of Atomic and Photonic Fractional Quantum Hall Systems	I. Carusotto	2020
Marchetti Francesca	Carbon – based nanofluids and hybrid natural polymers for enhanced solar-driven evaporation of water: synthesis and characterization	N.B. Laidani	2020
Merzi Stefano	Novel applications of FBK SiPMs in the detection of low energy ionizing radiation	A. Gola	2020
Ota Miki	Sound propagation in dilute Bose gases	S. Stringari	2020
Piccione Sara	Multi-gain interferometric laser for intra-cavity beam combining	L. Pavesi	2020
Popat Yaksh Jyotindra	Synthesis and characterization of nanocatalysts for applications in water purification and hydrogen production	A. Miotello	2019
Ricci Ester	The passage from microstrip to pixel silicon detectors for tracking particles in space	R. Iuppa	2020
Riz Luca	Spin polarization effects in neutron stars	F. Pederiva	2020
Zanon Mirko	Implementation of an all-optical setup for insect brain optogenetic stimulation and two-photon functional imaging	A. Haase	2020