



Il Colle di  
Galileo

# The 2015 INO-CNR Annual Symposium

Location: Villa Doria d'Angri. Via Francesco Petrarca 80,  
Naples (Italy)

Organizer: National Institute of Optics of the National Re-  
search Council (INO-CNR)

**Abstract.** The academic world came together with representatives from the spheres of politics and industry in Naples on the occasion of the 2015 INO-CNR Annual Symposium to discuss the role of Optics in our society, its perspectives and future opportunities.

**Keywords.** Optics, Light, Vision, Sources, Aerospace, Environment, Cultural Heritage, Energy, Health, Security, Spectroscopy, Interferometry, Microscopy, Metrology, Quantum Optics, Systems and Sensors, Quantum gases, Ultracold atoms.

The INO Annual Symposium is a lively meeting which once a year gathers INO researchers presenting their most recent scientific advances. The third edition, organized in Naples, 12-13 November 2015 by the local INO unit, was attended by over a hundred people, with a significant contribution of young researchers and PhD students. About 50 oral and poster presentations discussed recent developments in novel laser sources and innovative optical devices, with significant technological applications in the fields of sensing and biomedics, as well as more fundamental studies in the fields of cold atoms and molecules and quantum optics. Two round tables provided an animated forum focused on strategic visions related to advanced optical diagnostics and sensor networks. The meeting was enriched by the participation of two distinguished international guest speakers, Ady Arie (Tel Aviv University), who lectured on adiabatic frequency conversion in nonlinear optical devices, and Philippe Bouyer (LP2N, Bordeaux) talking on atom interferometry for gravitation experiments. On the same occasion, the signature of a Memorandum of Understanding between INO and Tel Aviv University was announced, aimed at reinforcing their collaboration in the field of optics.



Figure 1. Symposium participants.