



# SPW 2007

## SINGLE-PHOTON WORKSHOP 2007

### Sources, Detectors, Applications and Measurement Methods

**Tuesday 25th – Friday 28th September 2007**  
**Istituto Nazionale di Ricerca Metrologica (INRIM )**  
**Torino (ITALY)**



The Istituto Nazionale di Ricerca Metrologica and SINPHONIA announce the third workshop on single-photon detectors, applications and measurement methods as a follow up to the workshops held at NIST in 2003 and NPL in 2005.



The workshop is intended to bring together people with interests in single photon detectors, single photon sources, low photon sources and developments in photo-detection. The development of new single photon sources and single photon counting detectors, most of them based on nanostructured devices, is driven by the emergence of many applications requiring such devices, such as e.g. the area of Quantum Information Technologies (QIT).



The workshop will be an opportunity for researchers from universities, industrialists, metrologists, and nanotechnologists to report on current and future developments in these areas. We also welcome papers from areas of photon-detection research such as astrophysics, nuclear physics, biology, etc.



A special edition of the Journal of Modern Optics will be produced from the meeting as for the previous workshops.



#### TOPICS INCLUDED

- Single photon sources: new developments
- Single photon detectors: new developments
- SINPHONIA Symposium on Superconducting Single Photon Detectors
- Metrology: measurement techniques exploiting twin photons
- Current and future application needs: quantum cryptography, quantum communication, quantum computation, quantum imaging, low-light laboratory applications (astrophysics, nuclear physics, biology ...)



#### **SCIENTIFIC COMMITTEE**

- JESSICA CHEUNG (NPL - UK)**  
**PETER KNIGHT (Imperial College London - UK)**  
**HUGO ZBINDEN (University of Geneva - CH)**  
**STEFANIA CASTELLETTO (INRIM - I)**  
**SERGIO COVA (Polytechnic of Milan - I)**  
**ALAN MIGDALL (NIST - USA)**

#### **LOCAL ORGANISING COMMITTEE**

- GIORGIO BRIDA**  
**IVO PIETRO DEGIOVANNI**  
**MARCO GENOVESE**  
**MAURO RAJTERI**  
**MARIA LUISA RASTELLO**

#### **LOCAL ORGANISING CONTACT**

**ELISABETTA MELLI**

**Website:** [http://www.inrim.it/events/index\\_i.shtml](http://www.inrim.it/events/index_i.shtml)

**Local Organising Contact:** [locspw2007@inrim.it](mailto:locspw2007@inrim.it)

**Local Organising Committee:** [infospw2007@inrim.it](mailto:infospw2007@inrim.it)