



## NIS Colloquium

### Time and space resolved techniques with SR beams

Torino, Wednesday January 8, 2014

Aula 20 – Centro della Innovazione, Università degli Studi di Torino Via Quarellino 15/A  
(Local organizers: C. Garino, G. Agostini, C. Lamberti)

#### PROGRAM

- 9:30 – 9:45 **Carlo Lamberti** – NIS, CrisDi, University of Turin, INSTM Consortium  
Introduction to the Colloquium  
**Chair: Carmelo Prestipino** – Centre National de la Recherche Scientifique (CNRS, France)
- 9:45 – 10:15 **Gema Martinez-Criado** – European Synchrotron Radiation Facility (ESRF)  
Exploring single nanowires with a multimodal hard X-ray nanoprobe
- 10:15 – 10:35 **Chiara Groppo** – Department of Earth Sciences, University of Turin & **Carlo Lamberti**  
Garnets-onphacites: petrological problems, experimental approaches and data analysis
- 10:35 – 11:05 **Lorenzo Mino** – Department of Chemistry, University of Turin  
Synchrotron radiation for the characterization of low dimensional system
- 11:05 – 11:35 **Coffee Break**  
**Chair: Gema Martinez-Criado** – European Synchrotron Radiation Facility (ESRF)
- 11:35 – 11:55 **Alessandro Pagliero** – Department of Physics, University of Turin  
Towards a possible photoresist free X-ray photolithography using a synchrotron nano-beam
- 11:55 – 12:25 **Luca Salassa** – CIC biomaGUNE (Spain)  
Photoactivation of transition metal complexes using nanoparticles
- 12:25 – 12:55 **Luca Boarino** – Istituto Nazionale di Ricerca Metrologica (INRIM)  
SR experiments for the comprehension of self-assembling mechanisms in diblock copolymers systems
- Lunch**  
**Chair: Luca Salassa** – CIC biomaGUNE (Spain)
- 14:30 – 15:00 **Alessandro Longo or Giuseppe Portale** – DUBBLE Beamline at the ESRF  
Combined time resolved SAX/XAS experiments at BM26
- 15:00 – 15:30 **Giovanni Agostini or Sakura Pascarelli** – European Synchrotron Radiation Facility (ESRF)  
Time resolved XAS experiment in Q-EXAFS and in dispersive set ups (BM23 and ID24)
- 15:30 – 15:50 **Claudio Garino** – Department of Chemistry, University of Turin  
Excited state dynamics and photochemistry of transition metal complexes. Part 1: insight from computational analysis
- 15:50 – 16:10 **Elisa Borfecchia** – Department of Chemistry, University of Turin & INSTM  
Excited state dynamics and photochemistry of transition metal complexes. Part 2: insight from synchrotron ultrafast X-ray techniques
- 16:10 – 16:40 **Coffee Break**  
**Chair: Alessandro Longo or Giuseppe Portale** – DUBBLE Beamline at ESRF
- 16:40 – 17:10 **Erik Gallo** – European Synchrotron Radiation Facility (ESRF)  
Time Resolved X-ray Emission Spectroscopy: a useful tool for the investigation of spin-cross-over systems
- 17:10 – 17:40 **Diego Gianolio** – Diamond Light Source  
Potentialities of XAS/XES beamlines at Diamond
- 17:40 – 18:10 **Carmelo Prestipino** – Centre National de la Recherche Scientifique (CNRS, France)  
Multivariate data analysis: how to handle a huge amount of data
- 18.10 – 18:30 **Marco Milanesio** – Dipartimento Sci. & Innovaz. Tecnol., Università del Piemonte Orientale  
Chemical selectivity in structure determination by modulation enhanced X-ray diffraction: proof of principle by simulated and real experiments

Participation is free, registration is required: please send an e-mail to [claudio.garino@unito.it](mailto:claudio.garino@unito.it)