



NIS colloquium

X-ray induced modifications in materials: applications and challenges

6-7 April 2017

Università di Torino, Via P. Giuria 1

April 6th, Aula A

Chair: **Sergei Simak**, *Linköping University*

14.00-14.10

Ermanno Vercellin

Deputy Director for Research of the Physics Department of the University of Torino

Welcome address

14.10-14.20

Gabriele Ricchiardi

Director of Inter-departmental Centre for Nanostructured Interfaces and Surfaces - NIS - of the University of Torino

Welcome address

14.20-14.50

Roelof Van Silfhout

BM26-DUBBLE, European Synchrotron Radiation Facility, Grenoble

X-ray beam induced phase transitions at DUBBLE - observations at a bending magnet beamline

14.50-15.20

Nikita Medvedev

Institute of Physics of the Czech Academy of Sciences, Prague

Thermal and non-thermal transitions in X-ray-irradiated solids

15.20-15.50

Gema Marinez-Criado

Materials Science Institute, CSIC, Madrid

High resolution X-ray spectro-microscopy techniques applied to nanoscience



15.50-16.20

Krywka Christina

Helmholtz-Zentrum Geesthacht @ Desy, Hamburg

P03 Nanofocus Endstation - Nanodiffraction for Materials Science

16.20-16.40: **Coffe Break**

Chair: **Angelo Agostino**, *University of Torino*

16.40-17.10

Petre Badica

National Institute of Materials Physics, Magurele

Materials research at National Institute of Materials Physics

17.10-17.40

Christoph Bäumer

Peter Grünberg Institute, Research Centre Jülich.

Redox-based switching mechanisms in memristive devices studied by synchrotron-based spectromicroscopy

17.40-18.10

Sergei Simak

Linköping University

Oxygen vacancy diffusion from ab initio non-equilibrium molecular dynamics

April 7th, Sala Wataghin

Chair: **Gema Martinez-Criado**, *CSIC, Madrid*

9.00-9.30

Andreas Johannes

ID13, European Synchrotron Radiation Facility, Grenoble

Synchrotron based nano-focused X-ray investigations

9.30-10.00

Lorenzo Mino

University of Torino

Direct-write X-ray nanopatterning for oxides

10.00-10.30

Ulf Lundström

Excillum, Stockholm

MetalJet X-ray sources for high intensity X-ray beams



10.30-11.00

Lutz Bruegemann

Bruker

Utilisation of the MetalJet X-ray source for diffraction experiments

Organizers:

Angelo Agostino

Lorenzo Mino

Marco Truccato

Registration is free but requested

Please send an e-mail to: lorenzo.mino@unito.it by 31/03/2017