

NRS/IXS Workshop for PETRA III

Monday, 10.09.2007

11:00 **Registration** **FLASH Seminar Room (Bldg. 28c)**

Plenary Session: Techniques Overview **FLASH Seminar Room (Bldg. 28c)**

13:00 **R. Röhlberger**
Introduction to PETRA III

13:20 **H. Franz**
Beamline Overview

13:40 **R. Ruffer**
Nuclear Resonant Scattering at the ESRF

14:10 **M. Krisch**
Inelastic X-ray Scattering from Phonons: The ESRF Perspective

14:40 **Coffeebreak**

15:00 **W. Sturhahn**
Nuclear Resonant Scattering at APS

15:30 **A. Q. R. Baron**
Inelastic X-Ray Scattering at SPring8

16:00 **U. Bergmann**
Inelastic X-ray Scattering and Advanced Spectroscopy
with eV Resolution

16:30 **Coffeebreak + Poster Session**

17:30 **Round-table discussion**

19:00 **Dinner at the DESY Bistro**

Tuesday, 11.09.2007

Parallel Session: Nuclear Resonant Scattering

Room 456, Bldg. 25f

09:00	V. Schünemann Nuclear Resonant Scattering in Life Sciences
09:30	J. Korecki Surface Physics with Nuclear Resonant Scattering
10:00	Coffeebreak
10:30	T. Asthalter What can Nuclear Resonant Scattering Teach us about Molecular Dynamics and Catalysis - some Results and Perspectives
11:00	L. Dubrovinsky Iron Spin State in Earth Mantle: Insight From Combined NFS and Mössbauer Spectroscopy Studies
11:30	Lunch
13:00	M. Abd-Elmeguid High Pressure Studies of Strongly Correlated Systems Using NRS
13:30	J. Eisenmenger Geometrical Constraints in Exchange Biased and SC Films
14:00	Coffeebreak
14:30	E. Bill High-Valent Iron Complexes - A Step Ahead of Nature ?
15:00	F. Tuczek Monomolecular Layers from Transition Metal Complexes: Applications in Catalysis and Molecular Electronics
15:30	Coffeebreak
15:45	Discussion of user demands
17:00	Plenary Session (FLASH Seminar room, Bldg. 28c)

Parallel Session: Inelastic X-ray Scattering

Room 109, Bldg. 25b

P. Glatzel Chemical Applications of X-Ray Emission Spectroscopy
I. Loa Lattice Dyn. and Electronic Excit.in Complex Metals at Extreme Conditions
Coffeebreak
W.-Ch. Pilgrim High-Temperature and High-Pressure IXS on Liquids and Melts
H. Reichert Inelastic X-Ray Scattering in Confined Geometries
Lunch
Ch. Sternemann Core-Shell Excitations Studied by Non-Resonant Inelastic X-ray Scattering
J. Geck RIXS: A new probe for many body effects in correlated electron systems
Coffeebreak
M. Wilke Applications of IXS for Studying Properties of Geo-Materials
A. Soininen Electronic Excitations: First-principles Modeling
Coffeebreak
Discussion of user demands

Poster Session

Monday, 10.11.07, 16:30-17:30, FLASH Seminar room, Bldg. 28c

Poster presenter			Title
1	Böttger,	Lars	Spin- and phase transition in the spin crossover complex [Fe(ptz) ₆] (BF ₄) ₂ studied by nuclear inelastic scattering of synchrotron radiation and by DFT calculations
2	van Bürck,	Uwe	SRPAC: Basic Features and First Applications
3	Couet,	Sebastien	The Magnetic superstructure of iron/iron oxide superlattices unraveled by Nuclear Resonant Scattering
4	Murphy,	Bridget	Poster 1) Investigating surface dynamics with inelastic X-ray scattering <i>Bridget Murphy, Herwig Requardt, Jochim Stettner, Jorge Serrano, Michael Krisch, Martin Müller, Werner Press</i> Poster 2) Anisotropy of the elastic properties of cellulose fibres investigated using IXS <i>Imke Diddens, Bridget Murphy, Michael Krisch, Martin Müller</i>
4	Narygina,	Olga	Iron behavior in perovskite: a high pressure Moessbauer study
6	Paulsen,	Hauke	DFT calculation and NIS measurements on iron sulfur proteins
7	Petrenko,	Taras	Implementation of a first principles approach to the prediction and analysis of NRVS spectra within the ORCA quantum chemistry package
8	Planckaert,	Nikie	Energy Resolved Nuclear Resonant Magnetometry
9	Rueff,	Jean-Pascal	An overview of the GALAXIES beamline at SOLEIL: Inelastic x-ray scattering and Electron spectroscopy
10	Schuster,	Ellen	The start of ferromagnetism in ultra thin epitaxial 57Fe-films on GaAs(001)-(4x6)

11	Soininen,	Juha Aleksi	Extraction of the local density of states from X-ray Raman scattering data
12	Strohm,	Cornelius	Nuclear forward scattering in pulsed high magnetic fields
13	Trautwein,	Alfred Xaver	Photo-induced metastable isonytrosyl structure of the nitroprusside anion confirmed by NIS measurements and DFT calculations
14	Vitova,	Tonya	Site-selective XANES study of iron-doped lithium niobate crystals
15	Wende,	Heiko	Magnetic ordering and switching of iron porphyrin molecules mediated by ferromagnetic films