

### Monday, 11 March

08:30 – 09:00 Registration

09:00 – 09:30 Opening: Welcome by **H. Reichert, R. Rüffer, A. Chumakov**

#### Session 1 - Chair: C. McCammon

09:30 – 10:00 **A. Baron**, RIKEN SPring-8 Center - Japan  
Perspectives and Prospectives from Momentum Resolved Studies of Atomic Dynamics

10:00 – 10:30 **D. Andrault**, Université Clermont Auvergne - France  
Redox state of the molten Earth's mantle

10:30 – 11:00 Coffee Break

#### Session 2 - Chair: K. Temst

11:00 – 11:30 **T. Almeida**, University of Glasgow - UK  
Visualizing dynamic magnetism in nanostructures using electron microscopy

11:30 – 12:00 **C. Simon**, CNRS Grenoble - France  
Vortices in superconductors

12:00 – 12:30 **I. Sergeev**, Hasylab at DESY Hamburg - Germany  
Effect of the electron-phonon coupling on phonons in iron based superconductors

12:30 – 14:00 Lunch at EPN campus restaurant

14:00 – 16:00 Poster Session with Coffee

#### Session 3 - Chair: O. Leupold

16:00 – 16:30 **E. Alp**, Argonne National Laboratory - USA  
25 Years of Nuclear Resonant Scattering at ESRF-APS-Spring-8 and PETRA-III.  
What did we learn? What's next?

16:30 – 17:00 **D. Nagy**, Wigner Research Centre for Physics, Budapest - Hungary  
Application of the EBS NRS nanobeam in thin-film magnetism

17:00 – 17:30 **R. Röhlberger**, DESY Hamburg - Germany  
Sharpening spectral resolution and polarization purity of hard x-rays at the ESRF-EBS

19:00 Dinner Restaurant L'Epicurien  
(meeting point 18:25 in front of the guesthouse)

## Tuesday, 12 March

### Session 4 - Chair: D. Bessas

- 09:00 – 09:30 **L. Dubrovinsky**, Universität Bayreuth - Germany  
Submicron SMS for High-Pressure Mineral Physics
- 09:30 – 10:00 **C. McCammon**, Universität Bayreuth - Germany  
New frontiers in geoscience with submicron SMS
- 10:00 – 10:30 **E. Bykova**, DESY Hamburg - Germany  
Chemistry at extreme conditions: Fe-O system at ultra-high pressure
- 10:30 – 11:00 Coffee break

### Session 5 - Chair: R. Röhlberger

- 11:00 – 11:30 **G. Baldi**, Università di Trento - Italy  
Stress correlations and vibrational dynamics of glasses
- 11:30 – 12:00 **V. Schünemann**, Universität Kaiserslautern - Germany  
Nuclear resonant scattering of chemical and biological systems with focussed beams and high resolution monochromators
- 12:00 – 12:30 **S. Stankov**, Forschungszentrum Karlsruhe GmbH - Germany  
Opportunities in Nanoscale Lattice Dynamics with Nuclear Inelastic Scattering at the ESRF-EBS
- 12:30 – 14:00 Lunch at EPN campus restaurant

### Session 6 - Chair: H-C Wille

- 14:00 – 14:30 **R. Tucoulou**, ESRF Grenoble - France  
Good practices on a X-ray nanoprobe
- 14:30 – 15:00 **C. Schröder**, University of Stirling - UK  
Mineralogy and speciation of environmental iron nanoparticles with the 57-Fe Synchrotron Mössbauer Source
- 15:00 – 15:30 **Ilya Kupenko**, Westfälische Wilhelms-Universität, Germany  
Magnetic hematite at depths of the Earth's transition zone
- 15:30 – 16:00 Summary, closure
- 16:00 – 16:30 Farewell Coffee

