## EBS workshop on X-ray Spectroscopy of Magnetic Materials

ESRF, Grenoble, France

ESRF auditorium

## Day 1 - Monday 7th October 2019

08:30 - 09:15	Registration in the ESRF Central Building entrance hall with welcome coffee		
09:15 - 09:30	Welcome/Introduction	Harald Reichert Director of Research ESRF Grenoble, France	
09:30 - 10:30	Session 1 Chair: Harald Reichert		
09:30 - 10:00	Ultrafast X-ray Imaging of Magnetic Materials	<b>Roopali Kukreja</b> University of California Davis, USA	
10:00 - 10:30	XMCD Studies of Actinide Compounds with Formally Nonmagnetic 5f-Electron Ground State	<b>Roberto Caciuffo</b> European Commission, JRC- Karlsruhe, Germany	
10:30 - 11:00	Coffee and poster session		
11:00 - 12:30	Session 2 Chair: Marina Spasova		
11:00 - 11:30	X-ray Spectroscopy on Molecular Magnets: Magnetometry, Electronic Structure, and more.	Fernando Bartolomé University of Zaragoza, Spain	
11:30 - 12:00	Long-Lived Magnetic States in Single-Atom Magnets at Surfaces	Sebastien Stepanow ETH Zürich, Switzerland	
12:00 - 12:30	A New Twist to Interface Magnetism	<b>Sarnjeet Dhesi</b> Diamond Light Source Didcot, UK	
12:30 - 14:00	Lunch at the EPN campus restaurant		
14:00 - 16:00	Session 3 Chair: Philippe Sainctavit		
14:00 - 14:30	In-Situ Characterization of SPION Solutions by Means of 1s2p RIXS-MCD	<b>Marcin Sikora</b> AGH University of Science and Technology Krakow, Poland	
14:30 - 15:00	Elucidating the Electronic Structure of Magnetite using X-ray Magnetic Dichroism	<b>Hebatalla Elnaggar</b> Utrecht University, The Netherlands	
15:00 - 15:30	Magnetic- and Orbital-Excitations in 4d Transition Metals	Hlynur Gretarsson Petra-III Hamburg, Germany	
15:30 - 16:00	Impact of La Doping on the Local Electronic Properties of the $Ru^{4+}$ Ion: A Ru L-Edge XMCD study on $Ca_{2-x}La_xRuO_4$	Larissa Ishibe Veiga University College London, UK	
16:00 - 16:30	Coffee and poster session		

16:30 - 18:30	Session 4 Chair: Jan Vogel	
16:30 - 17:00	Spin Excitations Studied by Resonant Inelastic X-ray Scattering	<b>Giacomo Ghiringhelli</b> Politecnico di Milano, Italy
17:00 - 17:30	Revealing Magnetoelectric Coupling in Heterostructures by X-ray Magnetic Circular Dichroism	<b>Cinthia Piamonteze</b> SLS PSI Villigen, Switzerland
17:30 - 18:00	Magnetism Investigations by XMCD & XRMS at ALBA BL29: Recent Highlights and On-Going Developments	<b>Manuel Valvidares</b> ALBA Synchrotron Cerdanyola del Valles, Spain
18:00 - 18:30	Chirality in Thin Films and Multilayers probed by Soft X-ray (Coherent) Scattering	<b>Nicolas Jaouen</b> Synchrotron Soleil Gif-sur-Yvette, France

19:00 - 21:00 Dinner at the EPN campus restaurant

## Day 2 - Tuesday 8th October 2019

09:00 - 10:30	Session 5 Chair: Alain Fontaine	
09:00 - 09:30	Magnetic Scattering and Spectroscopy at High Pressures at APS and APS-U	<b>Daniel Haskel</b> APS Argonne National Laboratory, USA
09:30 - 10:00	X-ray Magnetic Circular Dichroism Spectroscopy and Magnetic Imaging at SPring-8	<b>Motohiro Suzuki</b> Spring-8 Hyogo, Japan
10:00 - 10:30	Recent Developments at the Resonant Scattering and Diffraction Beamline P09 at PETRA III at DESY	Sonia Francoual Petra-III Hamburg, Germany
10:30 - 11:00	Coffee and poster session	
11:00 - 12:30	Session 6 Chair: Pieter Glatzel	
11:00 - 11:30	Soft X-ray XMCD at Ultra-Low Temperature	<b>Philippe Ohresser</b> Synchrotron Soleil Gif-sur-Yvette, France
11:30 - 12:00	Hard XMCD under Extreme Conditions	Fabrice Wilhelm ESRF Grenoble, France
12:00 - 12:30	XAS at Extremes: Magnetic Materials under Pressure and Pulsed Magnetic Fields	<b>Olivier Mathon</b> ESRF Grenoble, France
12:30 - 14:00	Lunch at the EPN campus restaurant	
14:00 - 16:00	Session 7 Chair: Cyrille Train	
14:00 - 14:30	Modular Approaches to Magnetic Materials of 4d, 5d, and 5f Metal lons	Kasper Pedersen Petra-III Hamburg, Germany
14:30 - 15:00	Cyanido-Bridged Fe/Co Pairs : How to Make Them and How to Study the Switching Mechanism with XAS and XMCD Spectroscopies	<b>Corine Mathonière</b> University of Bordeaux, France
15:00 - 15:30	Exploring the Magnetism of Molecules at the Nanoscale using Synchrotron and Scanning Probes-Based Techniques	Matteo Mannini University of Florence, Italy
15:30 - 16:00	"Spin Injection" in Molecule-Based Materials toward Conducting Magnets	Rodolphe Clerac CNRS Bordeaux, France

16:00 - 16:30	Coffee and poster session	
16:30 - 18:30	Session 8 Chair: Jean-Pierre Sanchez	
16:30 - 17:00	Magnetism with Nuclear Resonance Scattering	Aleksandr Chumakov ESRF Grenoble, France
17:00 - 17:30	Magnetic Transitions in $Fe_2O_3$ at High Pressures: Magnetism in the Earth's Mantle	<b>Ilya Kupenko</b> University of Münster, Germany
17:30 - 18:00	Who cares about Magnetism at Extreme Conditions?	Catherine McCammon University of Bayreuth, Germany
18:00 - 18:30	Study of Spin Reorientations by Nuclear Forward Scattering in Fe and Ir Containing Compounds	<b>Ilya Sergueev</b> Petra-III Hamburg, Germany
19:00 - 21:00	Wine and Cheese buffet	

## Day 3 - Wednesday 9th October 2019

09:00 - 10:30	Session 9 Chair: Tim Ziman	
09:00 - 09:30	Theoretical Description of X-ray Experiments on Magnetic Materials out of Equilibrium	Hubert Ebert University of Munich, Germany
09:30 - 10:00	Band Structure Approach to RIXS	<b>Alexander Yaresko</b> MPI für Festkörperforschung Stuttgart, Germany
10:00 - 10:30	Magnetic Surface Resonant X-ray Diffraction	<b>Yves Joly</b> CNRS Grenoble, France
10:30 - 11:00	Electronic and Magnetic Character of UTe <sub>2</sub> Unconventional Superconductor	<b>Alexander Shick</b> Institute of Physics Prague, Czech Republic
11:00 - 11:30	Coffee and poster session	
11:30 - 12:30	Session 10 Chair: Patrick Bruno	
11:30 - 12:00	X-ray Magneto-Chiral Dichroism	<b>Andrei Rogalev</b> ESRF Grenoble, France
12:00 - 12:30	Recent and Future Developments at the Soft X-ray Spectroscopy Beamline ID32	Nicholas Brookes ESRF Grenoble, France
12:30 - 12:45	Summary/Closure	
12.45 - 14.00	Lunch at the FPN campus restaurant	