

EBS workshop on X-ray Spectroscopy of Magnetic Materials

ESRF, Grenoble, France

ESRF auditorium

Day 1 - Monday 11th December 2023

08:30 - 09:15	Registration in the ESRF Central Building entrance hall with welcome coffee	
09:15 - 09:30	Welcome/Introduction	Gema Martinez-Criado <i>Director of Research ESRF Grenoble, France</i>
09:30 - 10:30	Session 1 Chair: Gema Martinez Criado	
09:30 - 10:00	X-ray Magnetic Spectroscopies: an Overview	Andrei Rogalev <i>ESRF Grenoble, France</i>
10:00 - 10:30	Upgrade of BL39XU in SPring-8: Toward SPring-8-II	Naomi Kawamura <i>Spring-8, JASRI, JAPAN</i>
10:30 - 11:00	Coffee	
11:00 - 12:30	Session 2 Chair: Guillaume Beutier	
11:00 - 11:30	Imaging Transient Spin Structures	Hermann Durr <i>Uppsala University, Sweden</i>
11:30 - 12:00	Nanoscale Magnetism with Nuclear Resonance Scattering	Sasha Chumakov <i>ESRF Grenoble, France</i>
12:00 - 12:30	3D Imaging of Magnetic Structures using X-rays	Valerio Scagnoli <i>Paul Scherrer Institute, Switzerland</i>
12:30 - 14:00	Lunch at the EPN campus restaurant	
14:00 - 16:00	Session 3 Chair: Itziar Oyarzabal	
14:00 - 14:30	A Scientific Adventure from the Fine Control of the Magnetic Interactions toward Metal-Organic Magnets at Room Temperature	Rodolphe Clerac <i>CNRS Bordeaux, France</i>
14:30 - 15:00	Magnetic Anisotropy in mixed 3d-4f Metallacrown Complexes	Eva Rentschler <i>Johannes-Gutenberg-Universität Mainz, Germany</i>
15:00 - 15:30	XAS Techniques for the Exploration of Magnetic Molecules at the Nanoscale from Early Experiments to Future Needs	Matteo Mannini <i>University of Florence, Italy</i>
15:30 - 16:00	X-ray Magnetic Circular Dichroism as a Versatile Tool in the Study of Photo-Switchable Magnets	Michal Magott <i>Jagiellonian University, Krakow, Poland</i>
16:00 - 16:30	Coffee and Poster Session	

16:30 - 19:00	Session 4 Chair: Matteo d'Astuto	
16:30 - 17:00	Correlation of Site Occupancy in Magnetic Spinel-Ferrites with their Magnetic Properties via X-ray Linear and Magnetic Circular Dichroism	Andreas Ney <i>University of Linz, Austria</i>
17:00 - 17:30	X-ray Detected Ferromagnetic Resonance in Absorption, Reflectivity and Diffraction	Gerrit van der Laan <i>Diamond Light Source, UK</i>
17:30 - 18:00	Exploring the Magnetic Tunability of Ir-based Oxides	M.A. Laguna Marco <i>Instituto de Ciencia de Materiales de Aragon, Spain</i>
18:00 - 18:30	Insight into Uranium Magnetism from X-ray Spectroscopy	Oleksandr Kolomyiets <i>Lviv Polytechnic National University, Ukraine</i>

19:00 - 21:00 Dinner onsite

Day 2 - Tuesday 12th December 2023

09:00 - 10:30	Session 5 Chair: Amélie Juhin	
09:00 - 09:30	Magnetic Excitations beyond Single Magnons	Hebatalla Elnaggar <i>Université Pierre et Marie Curie - URA 782, France</i>
09:30 - 10:00	High-energy Spin Waves with Long Life Times in an Antiferromagnetic Metal	Kurt Kummer <i>ESRF Grenoble, France</i>
10:00 - 10:30	Kondo Scale and Coupled Fluorescence across the γ - α Transition in $\text{Ce}_{0.93}\text{Sc}_{0.07}$	Bodry Tegomo Chiogo <i>Helmholtz Zentrum Berlin, Germany</i>

10:30 - 11:00 Coffee and Poster Session

11:00 - 12:30	Session 6 Chair: Nick Brookes	
11:00 - 11:30	RIXS and XEOL Spectroscopies under Magnetic Field with the MAGELEC Sample-Environment at the SEXTANTS Beamline. Prospectives for Magnetic Materials	Alessandro Nicolaou <i>Synchrotron Soleil, France</i>
11:30 - 12:00	ID20 - Recent Developments for Inelastic X-ray Scattering of Magnetic Materials	Christoph Sahle <i>ESRF Grenoble, France</i>
12:00 - 12:30	Magnetic Depth Profiling with X-ray Resonant Magnetic Reflectivity	Timo Kuschel <i>Universität Bielfeld, Germany</i>

12:30 - 14:00 Lunch at the EPN campus restaurant

14:00 - 16:00	Session 7: Theory Chair: Andrei Rogalev	
14:00 - 14:40	Theoretical Modelling of X-ray Spectra and their Polarisation Dependence of Magnetic Materials in Quany	Maurits Haverkort <i>Heidelberg University, Germany</i>
14:40 - 15:20	Transition Metal Dihalides: from Band Structure to Magnetic Properties	Aleksandr Yaresko <i>MPI für Festkoerperforschung, Stuttgart, Germany</i>
15:20 - 16:00	Magnetic Resonant Diffraction in the YMnO3	Yves Joly <i>Institut Neel, Grenoble, France</i>

16:00 - 16:30 Coffee and Poster Session

16:30 - 18:30	Session 8: Chair: Nora Dempsey	
16:30 - 17:00	Functional Magnetic Materials: Call for Advanced X-ray Characterization	Konstantin Skokov <i>TU Darmstadt, Germany</i>
17:00 - 17:30	Using X-ray Absorption Spectroscopy to Study Magneto-Structural Correlations in Itinerant Magnets	Mykhailo Shatruk <i>Florida State University, USA</i>
17:30 - 18:00	Ultimate (Magnetic) Characterization: New Opportunities for Element-Specific and Macroscopic Investigations at ID12, ESRF	Alex Aubert <i>TU Darmstadt, Germany</i>
18:00 - 18:30	PUMA - PULSED MAGNETIC FIELDS FOR NEW FUNCTIONAL MAGNETIC MATERIALS	Katharina Ollefs <i>Universität Duisburg-Essen, Germany</i>
18:30 - 20:00	Visit of the Beamlines	

20:00 - 22:00 Wine and Cheese

Day 3 - Wednesday 13th December 2023

09:00 - 10:30	Session 9: Tutorial Chair: Fabrice Wilhelm	
09:00 - 09:30	X-ray Sum Rules Practice	Nathan Yutronkie <i>ESRF Grenoble, France</i>
09:30 - 10:00	Calculations of X-ray Spectra using Fully-Relativistic LMTO	Alexander Yaresko <i>MPI für Festkörperforschung Stuttgart, Germany</i>
10:00 - 10:30	Simulation of X-ray Magnetic Spectroscopy using the FDMNES Software	Laura Chaix <i>CNRS Grenoble, France</i>
10:30 - 11:00	Calculation of the Dichroism Spectra for Powder Samples: the Case of Ferricyanide	Marius Retegan <i>ESRF Grenoble, France</i>
11:00 - 11:30	Coffee	
11:30 - 12:30	Session 10 Chair: Pieter Glatzel	
11:30 - 12:00	ID32: a Soft X-ray Beamline for Spectroscopic Studies of Magnetic Materials	Nicholas Brookes <i>ESRF Grenoble, France</i>
12:00 - 12:30	ID12 Beamline: Present Status and Future Developments	Fabrice Wilhelm <i>ESRF Grenoble, France</i>
12:30 - 12:45	Summary/Closure	Philippe Saintavit <i>CNRS UMR 7590 - IMPMC, France</i>
12:45 - 14:00	Lunch at the EPN campus restaurant	