

Magnetic Materials under Extreme Conditions

6-9 February 2012

Venue: ILL Chadwick Amphitheatre

Programme

Monday, 6 February 2012		
11:30-12:00	Pre-registration at the ILL	
12:00-13:30	<i>Lunch at the ESRF/ILL restaurant</i>	
13:30-14:00	Registration at the ILL	
14:00-14:15	Opening by Harald Reichert, Director of Research at the ESRF, Grenoble, France	
14:15-17:50	Session 1: Chair: H. Reichert	
14:15	XMCD with large magnetic fields	P. Saintavit IMPMC, Paris, France
15:00	Extreme sample environment for neutrons and X-rays at HZB Berlin	K. Prokes HZB, Berlin, Germany
15:45-16:15	<i>Coffee break at ILL</i>	
16:15	Intrinsic magnetism in nanosized noble metals	J. Bartolomé Unizar, Zaragoza, Spain
17:00	Electronic structure of charge ordered $\text{La}_{5/3}\text{Sr}_{1/3}\text{NiO}_4$ by XES and RIXS	L. Simonelli ESRF, Grenoble, France
17:25	Structural and insulator-to-metal phase transition at 50 GPa in GdMnO_3	J. Agostinho Moreira Universidade do Porto, Portugal

Tuesday, 7 February 2012		
09:00-12:30	Users' Meeting Morning Session in the ESRF Auditorium	
12:30-14:00	<i>Lunch at the ESRF/ILL restaurant</i>	
14:00-17:30	Users' Meeting Parallel Session Chair: C. Aruta	
14:00	Isothermal electric control of exchange bias near room temperature	C. Binek NCMN, University of Nebraska, USA
14:45	Quantum phase transitions in low-dimensional model magnets	D. McMorro University College London, UK
15:30-16:00	<i>Coffee break at ILL</i>	
16:00	Generation of femtosecond pulses of effective magnetic field for ultrafast control of magnetism	A. Kimel Radboud University, Nijmegen, The Netherlands
16:45	Pressure induced magnetic and structural transitions in the 3d metals and their alloys by means of K-edge XMCD	R. Torchio ESRF, Grenoble, France
17:10	Magnetic structure of magneto-electric $\text{NdFe}_3(\text{BO}_3)_4$ under applied magnetic and electric fields	J. E. Hamann-Borrero IFW-Dresden, Germany
18:30-20:00	Cocktail & Joint Poster Session	
20:00-22:30	<i>Users' Meeting Dinner at the ESRF/ILL restaurant</i>	

Wednesday, 8 February 2012

09:00-12:30	Users' Meeting Morning Session in the ESRF Auditorium	
12:30-14:00	<i>Lunch at the ESRF/ILL restaurant</i>	
14:00-17:35	Session 2: Chair: A. Fontaine	
14:00	Iron under pressure: 'Kohn Tweezers' and remnant magnetism	A. Shukla IMPMC, Paris, France
14:45	A magnetic EXAFS study under high pressure noncollinear spin structure in Fe-Ni invar alloy	H. Maruyama Hiroshima University, Japan
15:30-16:00	<i>Coffee break at ILL</i>	
16:00	Spin crossovers, magnetic and electronic properties of 3d-metal oxides at high and ultra high pressures	I. Lyubutin IC RAS, Moscow, Russia
16:45	Novel magnetic states in the low dimensional quantum magnet SrCu ₂ (BO ₃) ₂ under high pressure	M. Zayed Qatar University, Qatar
17:10	Charge order in La _{2-x} Ba _x CuO ₄ under high pressure and high magnetic field	M. von Zimmermann HASYLAB/DESY, Hamburg, Germany
19:30-22:30	<i>Workshop Dinner at the restaurant 'La Corne d'Or' in Corenc</i>	

Thursday, 9 February 2012

09:00-12:30	Session 3: Chair: P. Bruno	
09:00	Coexistence of ferromagnetism and superconductivity in single-phase Bi ₃ Ni nanostructures	T. Herrmannsdörfer HLD, Dresden, Germany
09:45	Bistable magnetic systems at the nanoscale: the molecular way	Matteo Mannini Università di Firenze
10:30-11:00	<i>Coffee break at ILL</i>	
11:00	Superconductivity and magnetism of heavy fermion systems: some open problems!	J.-P. Brison SPSMS, INAC Grenoble, France
11:45	RMXS study of the frustrated antiferromagnet Ca ₃ Co ₂ O ₆ in applied magnetic field	C. Mazzoli Politecnico di Milano, Italy
12:10	Pressure-induced transition in the ground state of TiOCl: from spin-peierls to incommensurate charge-density-wave	A. Prodi University of Copenhagen, Denmark
12:35	Closing remarks by Patrick Bruno, Head of the ESRF Theory group, Grenoble, France	
12:50-14:00	<i>Lunch at the ESRF/ILL restaurant</i>	