

# Advances and new science with resonant elastic and inelastic X-ray scattering

**Wednesday, 8<sup>th</sup> February - Microsymposium UDM1**  
**Venue: ESRF auditorium**

09:00 - 09:05	Welcome	
	<i>Session I - Chair: Marco Salluzzo</i>	
09:05 - 09:35	<b>Keynote Talk 1:</b> New generation RIXS at ID32	<b>G. Ghiringhelli</b> Politecnico di Milano, Italy
09:35 - 09:55	Spin excitations in $\text{La}_2\text{CuO}_4$	<b>H.C. Robarts</b> University of Bristol, UK
09:55 - 10:15	Magnetic excitations in the high temperature superconducting oxychloride $\text{Ca}_{2-x}\text{Na}_x\text{CuO}_2\text{Cl}_2$	<b>M. d'Astuto</b> IMPMC, UPMC Paris, France
10:15 - 10:35	Direct observation of crystal field excitations and symmetries in Ce Kondo lattices by resonant inelastic soft X-ray scattering	<b>K. Kummer</b> ESRF Grenoble, France
10:35 - 11:00	<i>Coffee break</i>	
	<i>Session II - Chair: Nick Brookes</i>	
11:00 - 11:30	<b>Keynote Talk 2:</b> Probing electron-lattice coupling via RIXS	<b>Wei-Sheng Lee</b> SLAC, Stanford University, USA
11:30 - 11:50	Looking ahead on RIXS studies of phonons	<b>L. Braicovich</b> Politecnico di Milano, Italy
11:50 - 12:10	Ground state potential energy surfaces around selected atoms from RIXS	<b>A. Föhlisch</b> Helmholtz-Zentrum Berlin, Germany
12:10 - 12:30	Theory capabilities for RIXS at the ESRF	<b>K. Gilmore</b> ESRF Grenoble, France
12:30 - 14:00	<i>Lunch</i>	
	<i>Session III - Chair: Marco Moretti</i>	
14:00 - 14:30	<b>Keynote Talk 3:</b> How different are the iridates from the cuprates? Insights from RIXS and ARPES experiments	<b>K. Wohlfeld</b> University of Warsaw, Poland
14:30 - 15:00	<b>Keynote Talk 4:</b> Magnetism and topology in rare earth iridate pyrochlores	<b>D. McMorrow</b> University College London, UK
15:00 - 15:20	Absence of excitonic magnetism in the $d^4$ iridium double perovskites	<b>J. Geck</b> TU Dresden, Germany
15:20 - 15:40	Persistent paramagnons deep in the metallic phase of $\text{Sr}_{2-x}\text{La}_x\text{IrO}_4$	<b>H. Gretarsson</b> MPI Stuttgart, Germany
15:40 - 16:00	Doping Evolution of Magnetic Order and Magnetic Excitations in $(\text{Sr}_{1-x}\text{La}_x)_3\text{Ir}_2\text{O}_7$	<b>D. McNally</b> PSI Villigen, Switzerland
16:00 - 16:20	Anisotropic interactions opposing magnetocrystalline anisotropy in $\text{Sr}_3\text{NiIrO}_6$	<b>E. Lefrançois</b> MPI Stuttgart, Germany
	Closing remarks	