

Starting at:	Monday	Tuesday	Wednesday	Thursday	Friday
9:00					
9:15		E. Gomez	E. Benckiser	N. Jaouen	Y. Wang
9:30					
9:45					
10:00		H. Ade	P. Shafer	G. van der Laan	X. Liu
10:15					
10:30		<b>Coffee</b>	<b>Coffee</b>	<b>Coffee</b>	<b>Coffee</b>
10:45					
11:00					
11:15		B. Collins, T. McAfee, S.	R. Comin	U. Staub, F. Buettner,	Jianheng Li, N. Gurung,
11:30		Rongpipi		E. Burgos Parra	M. Flatken
11:45					
12:00			D. Hawthorn		<b>Closing</b>
12:15		T. Ferron, V. Murcia,		C. Klose, M. Bluschke,	
12:30		Y. Joly	Vendors 1 & 2	L. Yue	
12:45					
13:00					
13:15		<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	
13:30					
13:45		<b>Photo</b>			
14:00	<b>Opening</b>				
14:15	D. Gibbs (BNL)	P. Fenter	NSLS-II staff	V. Scagnoli	
14:30	Y. Joly				
14:45	(CNRS, F)	A. Malachias		T. Kimura	
15:00	G. van der Laan				
15:15	(Diamond, UK)				
15:30	S. Billinge	<b>Coffee</b>	NSLS-II visit	<b>Coffee</b>	
15:45	(Columbia & BNL)				
16:00	H. Ade	Y. Grunder, M.		V. Kiryukhin	
16:15	(NC Univ.)	Zschornak, K.			
16:30	<b>Coffee</b>	Chesnel			
16:45					
17:00	P. Evans	<b>Pause</b>		P. Evans, V. Esposito,	
17:15	(WM Univ.)			J. Pellicciari	
17:30	S. Calder	X. Chen, S. Skjaervoe,		<b>Pause</b>	
17:45	(ORNL)	A. Levitan - Jiarui Li			
18:00	A. Barbour (BNL)			D. Porter, C. Dashwood,	
18:15				G. Fabbris, P.	
18:30				Bereciartua, V.	
18:45				Petkov	
19:00		<b>Posters</b>			
19:15		<b>(wine &amp; cheese)</b>			
19:30	<b>Welcome &amp;</b>		<b>Banquet</b>		
19:45	<b>Reception</b>		<b>(next conference discussion)</b>		
20:00					

<b>14:00</b>	<b>Opening</b>
<b>14:15</b>	D. Gibbs* (BNL)
<b>14:30</b>	Y. Joly
<b>14:45</b>	(CNRS, F)
<b>15:00</b>	G. van der Laan
<b>15:15</b>	(Diamond, UK)
<b>15:30</b>	S. Billinge
<b>15:45</b>	(Columbia & BNL)
<b>16:00</b>	H. Ade
<b>16:15</b>	(NC Univ.)
<b>16:30</b>	<b>Coffee</b>
<b>16:45</b>	
<b>17:00</b>	P. Evans
<b>17:15</b>	(WM Univ.)
<b>17:30</b>	S. Calder
<b>17:45</b>	(ORNL)
<b>18:00</b>	A. Barbour (BNL)
<b>18:15</b>	

## Title

REXS theory: from absorption to scattering

Multipole expansion, selection rules and tensorial approach

Interference and basics of diffraction, non-periodic systems, periodic systems, and a smattering of crystallography

REXS in soft matter: characterization of polymers

REXS in hard condensed matter: opportunities for coherence and microscopy

Introduction to magnetic structures and their description

Speckles and x-ray photon correlation spectroscopy

**Invited (40' + 5')**

Benckiser	Eva	Spin, charge, and orbital reconstructions in complex oxide heterostructures
Comin	Riccardo	Visualizing the birth of a charge-density-wave with resonant X-ray scattering
Fenter	Paul	Imaging element-specific structures and processes at solid-liquid interfaces
Gomez	Esther	Resonant soft X-ray scattering of biological assemblies
Hawthorn	David	Resonant x-ray scattering studies of CDW order and nematicity in cuprate superconductors
Jaouen	Nicolas	Chirality in thin films and multilayers probed by soft x-ray (coherent) scattering
Kimura	Tsuyoshi	Observation of different types of antiferromagnetic domains by resonant x-ray microdiffraction
Kiryukhin	Valery	Imaging antiferromagnetic antiphase domain boundaries using magnetic Bragg diffraction phase contrast
Liu	Xuerong	The spin texture evolution in the iridates upon laser pumping Exploring interdiffusion, energies and potentials in nanostructured systems through resonant elastic x-ray diffraction.
Malachias	Angelo	Revealing magnetic configurations with X-ray magnetic nanotomography
Scagnoli	Valerio	Profiling of 3D skyrmion lattice twisting in chiral magnets
van der Laan	Gerrit	Quantum phase transitions in 5d pyrochlore all-in-all-out antiferromagnets
Wang	Yishu	Structure and morphology in organic electronic devices elucidated with soft x-ray scattering
Ade	Harald	Emergent chirality in nanoscale ferroic order
Shafer	Padraic	

**Contributed (15' + 5')**

Collins	Brian	Characterizing the limits of polarized resonant X-ray scattering in quantifying molecular alignment within nanostructures
Mcafee	Terry	Core-Sholl morphology of pluronic F127 micelles determined using in-situ resonant soft x-ray scattering
Rongpipi	Sintu	Resonant soft X-ray scattering reveals cellulose microfibril spacing in plant primary cell walls Development of resonant continuous contrast tuning to probe molecular organization and interfaces within 3D organic nanostructures
Ferron	Thomas	Adsorption at the electrochemical interface probed by surface resonant x-ray diffraction
Grunder	Yvonne	

	Murcia	Victor	Combining spectroscopy and DFT calculations into optical models of polarized RSoXS to quantify molecular orientation within
	Zschornak	Matthias	Resonantly suppressed diffraction - Probing structural distortions with sub-picometer spatial resolution
	Chen	Xiaoqian	Charge density wave memory in cuprate superconductors
	Pelliciani	Jonathan	Resolving the nature of electronic excitations in resonant inelastic x-ray scattering Pseudogap energy scale independent of charge-density-wave order
	Bluschke	Martin	in a high-T <sub>c</sub> cuprate Magnetic fluctuation dynamics in magnetite nanoparticles probed by coherent x-ray resonant magnetic scattering (C-XRMS) photon-correlation
Joint	Chesnel	Karine	scattering (C-XRMS) photon-correlation
	Levitan	Abraham	The antiferromagnetic order parameter in NdNiO <sub>3</sub> studied by resonant soft x-ray Bragg ptychography
	Li	Jiarui	Scale-invariant magnetic textures in a strongly correlated oxide
	Buettner	Felix	Magnetic skyrmions imaged by resonant soft x-ray holography
	Burgos Parra	Erick	X-ray resonant magnetic scattering in ferro and antiferro multilayers containing chiral magnetic textures Magnetic domain influence on spin Seebeck effect voltage generation revealed by dichroic x-ray resonant
	Evans	Paul	nano-diffraction imaging
	Staub	Urs	Field-induced multiferroic double spin spiral in a frustrated chiral magnet
	Klose	Christopher	Domain-wall dynamics in functional magnetic multilayers
	Joly	Yves	Ab initio simulation of surface resonant x-ray diffraction Investigation of metal-insulator transition in Slater insulator, NaOsO <sub>3</sub> using static and time-resolved
	Gurung	Namrata	resonant x-ray diffraction
	Fabbris	Gilberto	Quantum paramagnetism in square-lattice Sr <sub>2</sub> IrO <sub>4</sub> at high pressure
	Skjaervoe	Sandra Helen	Magnetic fluctuations in a magnetic metamaterial
	Yue	Li	Distinct fingerprints of charge density waves and electronic standing waves in ZrTe <sub>3</sub>
	Porter	Daniel	Magnetic anisotropy and orbital ordering in Ca <sub>2</sub> RuO <sub>4</sub>
	Dashwood	Cameron	The role of magnetism in the field-induced metal-insulator transition of Nd <sub>2</sub> Ir <sub>2</sub> O <sub>7</sub>
	Bereciartua	Pablo	Low temperature antiferromagnetic phase in EuPtIn <sub>4</sub>
	Petkov	Valery	Atomic structure of materials with intrinsic disorder, by resonant high-energy XRD
	Flatken	Marion	TBC

**Vendors (15')**

Huang	Taotao	HTS-110 Magnets
Strelhow	Charles	Inprentus optics