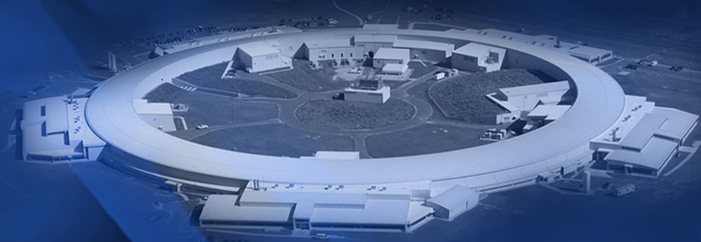


IXS2019

The 11th International Conference
on Inelastic X-ray Scattering

June 23-28, 2019

Charles B. Wang Center
Stony Brook University



Conference Program



11th International Conference on Inelastic X-ray Scattering (IXS2019)

Schedule at a Glance

6/23/2019 Sunday	6/24/2019 Monday	6/25/2019 Tuesday	6/26/2019 Wednesday	6/27/2019 Thursday	6/28/2019 Friday
8:00	8:00 Breakfast Check-in & Registration	8:00 Breakfast Check-in & Registration	8:00 Breakfast Check-in & Registration	8:00 Breakfast Check-in & Registration	8:00 Breakfast Check-in & Registration
	8:30 Opening Remarks Cai, Y; Reeder, R; Bansil, A	8:30 Delaire, O (Plenary)	8:30 Ghiringhelli, G (Plenary)	8:30 Yang, W (Plenary)	8:30 Intro of PA
	8:45 Overview Hill, J (Plenary)	9:10 Bertinshaw, J (contributed)	9:10 Pellicciari, J (contributed)	9:10 Rueff, J-P (contributed)	Poster Award Talks (4 x 15 mins)
	9:25 Kim, Y-J (Plenary)	9:30 Uchiyama, H (Invited)	9:30 Peng, Y (Invited)	9:30 Kwon, G (Invited)	Intro of YSA
	10:05 Kummer, K (Invited)	9:55 Wehinger, B (Invited)	9:55 Miao, H (Invited)	9:55 Suzuki, K (Invited)	Moon, J
	10:30 Quantum Materials I Coffee Break	10:20 Functional Materials Coffee Break	10:20 Quantum Materials II Coffee Break	10:20 Energy Materials & Catalysis Coffee Break	Wang, Y
	11:00 Amorese, A (contributed)	10:50 Juhin, A (Invited)	10:50 Lee, W (Invited)	10:50 DeBeer, S (Invited)	10:20 Coffee Break
	11:20 Merritt, A (contributed)	11:15 Beye, M (contributed)	11:15 Yavas, H (contributed)	11:15 Sundermann, M (contributed)	10:50 Gog, T (Plenary)
	11:40 Dean, M (contributed)	11:35 Stankov, S (Invited)	11:35 Le Tacon, M (Invited)	11:35 Hu, Michael (Invited)	11:30 Kao, C-C (Plenary)
	12:00 Miyawaki, J (Invited)	12:00 Inami, T (Invited)	12:00 Huang, D (Invited)	12:00 de Groot, F (Invited)	Bansil, A. (Summary & Next Conf.)
	12:25 Lunch & Poster Session	12:25 Lunch & Poster Session	12:25 Lunch	12:25 Lunch	12:40 Lunch (Boxed to Go)
	14:30 Haverkort, M (Plenary)	14:20 Reis, D (Plenary)	13:45 Bisogni, V (Invited)	13:45 Pietzsch, A (Invited)	13:45 Bus to Vineyard
	15:10 Vaz Da Cruz, V (contributed)	15:00 Malvestuto, M (Invited)	14:10 Zhou, K (Invited)	14:10 Cunsolo, A (Invited)	
	15:30 Ikono, H (contributed)	15:25 Mitrano, M (Invited)	14:35 Schlappa, J (Invited)	14:35 Ohtani, E (Invited)	14:30 Excursion: Wine tasting
	15:50 Tohyama, T (Invited)	15:50 Schmitt, T (Invited)	15:00 Dakovski, G (Invited)	15:00 Zhernenkov, M (Invited)	
	16:15 Theory Coffee Break	16:15 Time-domain Spectroscopy Coffee Break	15:25 Chuang, Y-D (contributed)	15:25 Soft, Biomaterials & Extreme Conditions Bus to BNL	
	16:45 Devereaux, T (Invited)	16:45 Föhlisch, A (Invited)	15:45 Coffee Break	16:00 BNL/NSLS-II Tour	16:30 Bus for SBU
	17:10 Nocera, A (contributed)	17:10 Kroll, T (contributed)	16:40 Gretarsson, H (Invited)		
	17:30 Kunes, J (Invited)	17:30 Saito, M (Invited)	17:05 Sahle, C (Invited)		
	17:55 Paramekanti, A (Invited)	17:55 Bencivenga, F (Invited)	17:30 Hiraoka, N (Invited)	18:00 Bus to Danfords, Port Jefferson	
	18:20 Welcome Reception @ Hilton Garden Inn, Stony Brook	18:20 Dinner	18:20 Dinner	19:00 Conference Banquet @ Danford's Hotel & Marina Mizuki, J: Post Banquet Talk Announcement of next conference	Legend
	19:00 Dinner	19:00 Dinner	19:00 Dinner		Plenary Talk
					Invited Talk
					Contributed/Award Talk
					Session
					Session Chair
					Opening
					Function & Tour
22:00	22:00	22:00	22:00	22:00 Bus for SBU	22:00

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Welcome

On behalf of the National Synchrotron Light Source II (NSLS-II) and Stony Brook University (SBU), we warmly welcome you to the 11th International Conference on Inelastic X-ray Scattering (IXS2019), which will be held this year on June 23 – 28 in the Charles B. Wang Center on the SBU campus, Stony Brook, New York. This conference series, now held every two years, serves as the prime forum in our community to highlight the latest scientific and technical advances in inelastic x-ray scattering.

We strive to continue this tradition. This year's conference program is designed to foster discussion on several key fronts including: frontier materials science topics ranging from quantum, energy, functional materials, to soft, glassy and biological materials, studies in the time domains and under extreme and operando conditions, the latest developments in novel IXS instrumentation, experimental approaches and theories, and the future of IXS with storage ring upgrades and at new XFEL sources. The program includes 9 plenary, 40 invited, 14 contributed, 2 IUCr sponsored young scientist award talks, approximately 60 posters, and 4 poster award presentations.

We are grateful to the generous support provided by NSLS-II, the NSLS-II UEC, Stony Brook University, the International Union of Crystallography (IUCr), and the American Physical Society. We also recognize the invaluable role of our exhibitors and sponsors in making this event a success. A list of the conference supporters can be found in this booklet.

It is a true privilege to serve this community by organizing IXS2019. We owe many thanks to those who made this conference possible including members of the Local Organizing Committee and the International Program Committee, along with Mercy Baez, Eileen Morello and staff of the Users Office of NSLS-II for their dedicated support of this endeavour throughout the past year. Special thanks also go to Ben Ocko for his contributions to many of the programming details.

We wish everyone a productive conference and an enjoyable stay on Long Island.

Yong Cai

Chair, 11th International Conference on Inelastic X-ray Scattering
NSLS-II, BNL

Mark Dean, Ignace Jarrige

Co-chairs, 11th International Conference on Inelastic X-ray Scattering
NSLS-II, BNL

Young-June Kim

Chair of Program Committee, 11th International Conference on Inelastic X-ray Scattering
University of Toronto

Committees

International Steering Committee

Arun Bansil (Northeastern Univ., USA), Chair
Esen E. Alp (ANL, USA)
Wolfgang Caliebe (DESY, Germany)
Thomas P. Devereaux (SIMES/SLAC, USA)
Keijo Hämäläinen (Univ. Helsinki, Finland)
John Hill (BNL, USA)

Di-Jing Huang (NSRRC, Taiwan)
Zahid Hussain (LBNL, USA)
Hiroshi Kawata (KEK, Japan)
Michael Krisch (ESRF, France)
Yoshiharu Sakurai (JASRI, Japan)
Winfried Schülke (TU Dortmund, Germany)

International Program Committee

Young-June Kim (Univ. Toronto, Canada), Chair
Alfred Baron (RIKEN SPring-8, Japan)
Nick Brookes (ESRF, France)
Georgi Dakovski (SLAC, USA)
Serena DeBeer (MPI CEC, Germany)
Yi-De Chuang (LBNL, USA)
Frank de Groot (Utrecht Univ., Netherlands)
Thomas P. Devereaux (SIMES/SLAC, USA)
Yang Ding (HPSTAR, China)
Alexander Foehlich (HZB, Germany)
Giacomo Ghiringhelli (Politecnico di Milano, Italy)
Peiter Glatzel (ESRF, France)
Thomas Gog (ANL, USA)
Jinghua Guo (LBNL, USA)
Jason Hancock (Univ. Connecticut, USA)
Yoshihisa Harada (Univ. Tokyo, Japan)
John Hill (BNL, USA)
Di-Jing Huang (NSRRC, Taiwan)

Simo Huotari (Univ. Helsinki, Finland)
Kenji Ishii (QST, Japan)
Bernhard Keimer (MPI SSR, Germany)
Jungho Kim (ANL, USA)
Wei-sheng Lee (SLAC, USA)
Mathieu Le Tacon (KIT, Germany)
Xuerong Liu (ShanghaiTech Univ., China)
Claudio Masciovecchio (ELETTRA, Italy)
Marco Moretti Sala (Politecnico di Milano, Italy)
Jan-Erik Rubensson (Uppsala Univ., Sweden)
Yoshiharu Sakurai (JASRI, Japan)
Thorsten Schmitt (PSI, Switzerland)
Liu Hao Tjeng (MPI-CPfS, Germany)
Takami Tohyama (Tokyo Univ. Science, Japan)
Jeroen van den Brink (IFW Dresden, Germany)
Hasan Yavas (SLAC, USA)
Kejin Zhou (DLS, UK)

Local Organizing Committee

Yong Cai (BNL, USA), Chair
Mark Dean (BNL, USA), Co-chair
Ignace Jarrige (BNL, USA), Co-chair
Valentina Bisogni (BNL, USA)
Alessandro Cunsolo (BNL, USA)

Ben Ocko (BNL, USA)
John Parise (SBU, USA)
Ron Pindak (BNL, USA)
Alexey Suvorov (BNL, USA)

Conference Events & Useful Info

Registered attendees are invited to attend the welcome reception, NSLS-II Facility tour, banquet dinner and excursion. Please visit the Registration Desk for further details.

Welcome Reception: Sunday, June 23, 6:00 PM – 8:00 PM

Hilton Garden Inn Stony Brook

1 Circle Road, Stony Brook, NY 11794

No charge for registered attendees; additional cost for guests.

NSLS-II Facility Tour: Thursday, June 27, 4:00 PM – 6:00 PM

Open to all registered attendees. Tour sign-up is available during Conference Registration while space is available. Buses start departing at 3:30 PM.

Important Note: NSLS-II is posted a Controlled Radiation Area. Minors under the age of 10 years old are not allowed to tour the facility. Guests must wear **long pants and flat, closed-toe shoes**. Access may be restricted if proper attire is not worn.

No charge for registered attendees; transportation will be provided.

Conference Banquet: Thursday, June 27, 7:00 PM – 10:00 PM

Danford's Hotel & Marina

25 East Broadway, Port Jefferson, NY 11777

Please visit the Registration Desk to purchase your banquet ticket. Transportation to the banquet will be provided for tour participants.

Excursion: Friday, June 28, 2:30 PM – 4:30 PM

Baiting Hollow Farm Vineyard

2114 Sound Ave, Calverton, NY 11933

Limited number of seats are still available. Please visit the Registration Desk to purchase your excursion ticket. Transportation will be provided.

WIFI Access in Wang Center and on SBU Campus

Eduroam is available throughout SBU Campus for attendees from participating institutions. Further details can be found at <https://it.stonybrook.edu/services/eduroam>. Alternatively, please use WolfieNet-Guest. For login instructions, please visit <https://it.stonybrook.edu/services/wolfienet/guest>. Access request has been made for all registered participants.

Parking

Free parking is available at the parking lot next to the SBU conference housing (Tubman Halls). Please refer to the map at the end of this program.

Emergency Contact

In case of emergency, please contact Conference Coordinator: Mercy Baez, Tel: (631) 708-4778

Program

Sunday, June 23, 2019

- 16:00 – 18:00 Check-in and Registration at Hilton Garden Inn at Stony Brook
18:00 – 20:00 Welcome Reception at Hilton Garden Inn at Stony Brook

Monday, June 24, 2019

- 08:00 – 08:30 Breakfast, Check-in and Registration at Wang Center

[Welcome and Opening Remarks] Session Chair: Yong Cai, Brookhaven National Laboratory

- 08:30 – 08:45 Yong Cai, Brookhaven National Laboratory
Richard Reeder, Stony Brook University
Arun Bansil, Northeastern University

[Overview] Session Chair: Arun Bansil, Northeastern University

- 08:45 – 09:25 “Inelastic X-ray Scattering: Past, Present and Future” (tentative) (P-1)
John Hill, Brookhaven National Laboratory

[Quantum Materials I] A Session Chair: Arun Bansil, Northeastern University

- 09:25 – 10:05 “RIXS beyond cuprates: an overview” (P-2)
Young-June Kim, University of Toronto
10:05 – 10:30 “Looking at low energy excitations in the lanthanides with RIXS: current status and opportunities” (I-1)
Kurt Kummer, European Synchrotron Radiation Facility
10:30 – 11:00 Coffee break

[Quantum Materials I] B Session Chair: Thorsten Schmitt, Paul Scherrer Institut

- 11:00 – 11:20 “RIXS characterization of the giant crystal field, multiplet mixing and magnetism in CeRh₃B₂” (C-1)
Andrea Amorese, Max Planck Institute for Chemical Physics of Solids
11:20 – 11:40 “Nematic Fluctuations and Lattice Coupling in Ba(Fe_{0.97}Co_{0.03})₂As₂ and FeSe” (C-2)
Adrian Merritt, University of Colorado – Boulder

11:40 – 12:00	“Topological Phononic Excitations Revealed by Inelastic X-Ray Scattering” Mark Dean, <i>Brookhaven National Laboratory</i>	(C-3)
12:00 – 12:25	“High Performance Soft X-ray RIXS and Applications to Magnetic Materials” Jun Miyawaki, <i>University of Tokyo</i>	(I-2)
[Poster Session] A		
12:25 – 14:30	Lunch & Poster Session (Conference Group Photo)	
[Theory] A	Session Chair: Di-Jing Huang, <i>National Synchrotron Radiation Research Center</i>	
14:30 – 15:10	“X-ray core level spectroscopy, what do we learn and which level of theory do we need” Maurits Haverkort, <i>Heidelberg University</i>	(P-3)
15:10 – 15:30	“First-principles modelling of RIXS in liquid water: Core-excited nuclear dynamics and the distribution of local potential energy surfaces” Vinicius Vaz Da Cruz, <i>University of Potsdam</i>	(C-4)
15:30 – 15:50	“Systematic Calculations of RIXS for the 3d Transition Metal Oxides by the Ab-initio Multiplet Methods” Hidekazu Ikeno, <i>Osaka Prefecture University</i>	(C-5)
15:50 – 16:15	“Spin and Charge Excitations in Stripe-Ordered Cuprates” Takami Tohyama, <i>Tokyo University of Science</i>	(I-3)
16:15 – 16:45	Coffee Break	
[Theory] B	Session Chair: Frank de Groot, <i>Utrecht University</i>	
16:45 – 17:10	“Unbiased simulations of the Hubbard model and how to see collective charge modes” Tom Devereaux, <i>SLAC National Accelerator Laboratory</i>	(I-4)
17:10 – 17:30	“Computing Resonant Inelastic X-Ray Scattering Spectra Using The Density Matrix Renormalization Group Method” Alberto Nocera, <i>University of British Columbia</i>	(C-6)
17:30 – 17:55	“LDA+DMFT approach to calculation of RIXS spectra” Jan Kuneš, <i>TU Wien</i>	(I-5)
17:55 – 18:20	“RIXS for 5d spin-orbit coupled oxides in the strong Mott-insulator limit” Arun Paramekanti, <i>University of Toronto</i>	(I-6)
19:00	Wang Center closes for the evening (Please leave the building by 18:45)	
19:00 – 22:00	Dinner at Hilton Garden Inn, Stony Brook	

Tuesday, June 25, 2019

08:00 – 08:30 Breakfast, Check-in and Registration at Wang Center

[Functional Materials] A

Session Chair: Alfred Baron, RIKEN SPring-8 Center

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|---------------|--|-------|
| 08:30 – 09:10 | “Studies of Phonons with Inelastic X-Ray Scattering and First-Principles Simulations: Anharmonicity, Electron-Phonon and Spin-Phonon Couplings”
Olivier Delaire, <i>Duke University</i> | (P-4) |
| 09:10 – 09:30 | “Magnetic Dynamics of Sr ₂ IrO ₄ /Sr ₃ Ir ₂ O ₇ Superlattices”
Joel Bertinshaw, <i>Max-Planck-Institut für Festkörperforschung</i> | (C-7) |
| 09:30 – 09:55 | “Estimation of phonon lifetime in epitaxial films”
Hiroshi Uchiyama, <i>Japan Synchrotron Radiation Research Institute (JASRI), SPring-8</i> | (I-7) |
| 09:55 – 10:20 | “Spin and lattice correlations in quantum magnets and the full elasticity tensor from thermal diffuse scattering”
Björn Wehinger, <i>University of Geneva</i> | (I-8) |
| 10:20 – 10:50 | Coffee Break | |

[Functional Materials] B

Session Chair: Wolfgang Caliebe, DESY

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|---------------|--|--------|
| 10:50 – 11:15 | “Advanced magnetic spectroscopies for the fine characterization of magnetic nanomaterials”
Amélie Juhin, <i>Sorbonne Université</i> | (I-9) |
| 11:15 – 11:35 | “Imaging sub-micrometer length scales with RIXS on complex oxides”
Martin Beye, <i>DESY</i> | (C-8) |
| 11:35 – 12:00 | “Lattice dynamics of epitaxial strain-free interfaces”
Svetoslav Stankov, <i>Karlsruher Institut für Technologie (KIT)</i> | (I-10) |
| 12:00 – 12:25 | “Magnetic circular dichroism in x-ray fluorescence”
Toshiya Inami, <i>National Institutes for Quantum and Radiological Science and Technology</i> | (I-11) |

[Poster Session] B

12:25 – 14:20 Lunch & Poster Session

[Time-Domain Spectroscopy] A

Session Chair: Mark Dean, Brookhaven National Laboratory

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|---------------|---|-------|
| 14:20 – 15:00 | “Nonequilibrium Lattice Dynamics in photoexcited bismuth”
David Reis, <i>Stanford University</i> | (P-5) |
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15:00 – 15:25	“Resonant inelastic EUV scattering at a seeded free electron laser” Marco Malvestuto, <i>Elettra Sincrotrone Trieste</i>	(I-12)
15:25 – 15:50	“Ultrafast time-resolved x-ray scattering reveals diffusive charge order dynamics in $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$ ” Matteo Mitrano, <i>University of Illinois at Urbana-Champaign</i>	(I-13)
15:50 – 16:15	“Time-resolved Resonant Inelastic X-ray Scattering on Quantum Materials” Thorsten Schmitt, <i>Paul Scherrer Institut</i>	(I-14)
16:15 – 16:45	Coffee Break	

[Time-Domain Spectroscopy] B Session Chair: Hasan Yavas, *SLAC National Accelerator Laboratory*

16:45 – 17:10	“Tracing the active atomic sites in photochemistry with soft X-ray resonant inelastic X-ray scattering” Alexander Föhlisch, <i>Helmholtz-Zentrum Berlin für Materialien und Energie</i>	(I-15)
17:10 – 17:30	“Stimulated X-ray Emission Spectroscopy with hard X-rays” Thomas Kroll, <i>SLAC National Accelerator Laboratory</i>	(C-9)
17:30 – 17:55	“Dynamics study in time scales between nano-second and micro-second by quasi-elastic scattering based on synchrotron radiation” Makina Saito, <i>Kyoto University</i>	(I-16)
17:55 – 18:20	“Nanoscale lattice dynamics probed by extreme ultraviolet transient gratings” Filippo Bencivenga, <i>Elettra Sincrotrone Trieste</i>	(I-17)
19:00	Wang Center closes for the evening (Please leave the building by 18:45)	
19:00 – 22:00	Dinner at Hilton Garden Inn, Stony Brook	

Wednesday, June 26, 2019

08:00 – 08:30	Breakfast, Check-in and Registration at Wang Center
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[Quantum Materials II] A Session Chair: Tom Devereaux, *SLAC National Accelerator Laboratory*

08:30 – 09:10	“Charge fluctuations and electron phonon coupling studied by very high resolution RIXS” Giacomo Ghiringhelli, <i>Politecnico di Milano</i>	(P-6)
09:10 – 09:30	“Resonant Inelastic X-ray Scattering on ultrathin FeSe grown on SrTiO_3 ” Jonathan Pelliciari, <i>MIT</i>	(C-10)

09:30 – 09:55	“Evolution of the magnetic excitations in high T _c cuprates” Yingying Peng, <i>University of Illinois at Urbana-Champaign</i>	(I-18)
09:55 – 10:20	“Ubiquitous Charge Density Wave Excitation and Local Commensurability in Underdoped Cuprates” Hu Miao, <i>Brookhaven National Laboratory</i>	(I-19)
10:20 – 10:50	Coffee Break	

[Quantum Materials II] B	Session Chair: Young-June Kim, <i>University of Toronto</i>
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10:50 – 11:15	“Probing CDW phenomena and charge excitations in cuprates via RIXS” Wei-Sheng Lee, <i>SLAC National Accelerator Laboratory</i>	(I-20)
11:15 – 11:35	“Direct imaging of orbitals using inelastic X-ray scattering” Hasan Yavas, <i>SLAC National Accelerator Laboratory</i>	(C-11)
11:35 – 12:00	“Uniaxial pressure control of competing orders in the cuprates” Mathieu Le Tacon, <i>Karlsruhe Institute of Technology</i>	(I-21)
12:00 – 12:25	“High-resolution momentum-resolved RIXS at Taiwan Photon Source” Di-Jing Huang, <i>National Synchrotron Radiation Research Center</i>	(I-22)
12:25 – 13:45	Lunch and IXS Steering Committee Executive Meeting	

[Novel Instrumentation & Methods] A	Session Chair: Giacomo Ghiringhelli, <i>Politecnico di Milano</i>
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13:45 – 14:10	“Resonant Inelastic X-ray Scattering at SIX of NSLS II: An update on the beamline status and its performances” Valentina Bisogni, <i>Brookhaven National Laboratory</i>	(I-23)
14:10 – 14:35	“High energy resolution RIXS study on orbital ordered KCuF ₃ ” Ke-Jin Zhou, <i>Diamond Light Source</i>	(I-24)
14:35 – 15:00	“Opportunities for resonant elastic and inelastic x-ray scattering studies at the SCS instrument at the European XFEL” Justine Schlappa, <i>European XFEL</i>	(I-25)
15:00 – 15:25	“Soft X-ray scattering instrumentation at LCLS-II” Georgi Dakovski, <i>SLAC National Accelerator Laboratory</i>	(I-26)
15:25 – 15:45	“Double dispersion RIXS (QERLIN) at the ALS” Yi-De Chuang, <i>Lawrence Berkeley National Laboratory</i>	(C-12)
15:45 – 16:15	Coffee Break	

[Novel Instrumentation & Methods] B		Session Chair: Simo Huotari, <i>University of Helsinki</i>
16:15 – 16:40	“High spectral and focal resolution RIXS with state-of-the-art flat crystal spectrometer” Jungho Kim, <i>Argonne National Laboratory</i>	(I-27)
16:40 – 17:05	“IRIXS: an intermediate x-ray energy RIXS spectrometer at P01, DESY” Hlynur Gretarsson, <i>DESY</i>	(I-28)
17:05 – 17:30	“The Inelastic X-ray Scattering beam line ID20 at the ESRF” Christoph Sahle, <i>ESRF</i>	(I-29)
17:30 – 17:55	“Ultrahigh resolution Compton scattering” Nozomu Hiraoka, <i>National Synchrotron Radiation Research Center</i>	(I-30)
17:55 – 18:20	“Recent Progress in Non-Resonant Inelastic X-Ray Scattering” Alfred Baron, <i>RIKEN SPring-8 Center</i>	(I-31)
19:00	Wang Center closes for the evening (Please leave the building by 18:45)	
19:00 – 22:00	Dinner at Hilton Garden Inn, Stony Brook	

Thursday, June 27, 2019

08:00 – 08:30 Breakfast, Check-in and Registration at Wang Center

[Energy Materials & Catalysis] A		Session Chair: Jun’ichiro Mizuki, <i>Kwansei Gakuin University</i>
08:30 – 09:10	“A spectroscopic journey into the critical electron states in batteries” Wanli Yang, <i>Lawrence Berkeley National Laboratory</i>	(P-7)
09:10 – 09:30	“Hyperspectral Imaging with X-ray Raman Scattering” Jean-Pascal Rueff, <i>Synchrotron SOLEIL</i>	(C-13)
09:30 – 09:55	“Ex-situ and in-situ scattering and spectroscopic study of oxygen evolution catalysts” Gihan Kwon, <i>Brookhaven National Laboratory</i>	(I-32)
09:55 – 10:20	“High-Energy X-ray Compton Scattering for Non-destructive and Quantum Characterization in Batteries” Kosuke Suzuki, <i>Gunma University</i>	(I-33)
10:20 – 10:50	Coffee Break	

[Energy Materials & Catalysis] B		Session Chair: Yoshiharu Sakurai, <i>JASRI, SPring-8</i>
10:50 – 11:15	“The Evolution of Electronic Complexity in Biology: 2p3d and 1s3p RIXS of Iron Sulfur Clusters” Serena DeBeer, <i>MPI CEC</i>	(I-34)

11:15 – 11:35	“CF scheme of UO ₂ measured with NIXS” Martin Sundermann, <i>University of Cologne</i>	(C-14)
11:35 – 12:00	“NRIXS studies of halide perovskites” Michael Hu, <i>Argonne National Laboratory</i>	(I-35)
12:00 – 12:25	“What experiments can we do with 2p3d RIXS?” Frank de Groot, <i>Utrecht University</i>	(I-36)
12:25 – 13:45	Lunch	

[Soft, Biomaterials & Extreme Conditions]	Session Chair: Jean-Pascal Rueff, <i>Synchrotron SOLEIL</i>
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13:45 – 14:10	“Directional cuts through potential energy surfaces” Annette Pietzsch, <i>Helmholtz Zentrum Berlin</i>	(I-37)
14:10 – 14:35	“High-resolution Inelastic X-Ray Scattering as a probe of the dynamic in complex and hybrid materials” Alessandro Cunsolo, <i>Brookhaven National Laboratory</i>	(I-38)
14:35 – 15:00	“Inelastic X-ray scattering at extreme conditions and its geophysical applications” Eiji Ohtani, <i>Tohoku University</i>	(I-39)
15:00 – 15:25	“New insight into biophysics of lipid membranes with high resolution IXS” Mikhail Zhernenkov, <i>Brookhaven National Laboratory</i>	(I-40)
15:25 – 16:30	Buses from SBU to BNL for site tour. Anticipate 6 groups in two buses. Bus A (group #1-3) departs @ 15:35, arriving at BNL (NSLS-II/740) @ 16:15 Bus B (group #4-6) departs @ 15:45, arriving at BNL (NSLS-II/740) @ 16:25	
16:30 – 18:00	BNL (NSLS-II/740) tours #1-3 starts from 16:20, ends at 17:50 BNL (NSLS-II/740) tours #4-6 starts from 16:30, ends at 18:00	
18:00 – 19:00	Buses from BNL to Port Jeff, including people not joining banquet. Bus A (group #1-3) departs @ 18:00, arriving at Port Jeff Marina @ 18:40 Bus B (group #4-6) departs @ 18:10, arriving at Port Jeff Marina @ 18:50	
19:00 – 22:00	Conference Banquet @ Danford’s Hotel & Marina Jun’ichiro Mizuki, Post-banquet talk Announcement of next IXS conference Music entertainment	
22:00 – 22:30	Buses from Port Jeff to SBU (will leave promptly at 22:00)	

Friday, June 28, 2019	
08:00 – 08:30	Breakfast, Check-in and Registration at Wang Center
[Awards]	Session Chair: Ignace Jarrige, <i>Brookhaven National Laboratory</i>
08:30 – 08:35	Introduction of IXS2019 Poster Awardees and award ceremony Nozomu Hiraoka, <i>National Synchrotron Radiation Research Center</i>
08:35 – 09:35	4 poster award talks each 15 mins
09:35 – 09:40	Introduction of IUCr Young Scientist Awardees and award ceremony Yong Cai, <i>Brookhaven National Laboratory</i>
09:40 – 10:00	“Thermal acoustic excitations with atomic scale wavelengths in amorphous silicon” (YSA-1) Jaeyun Moon, <i>Caltech</i>
10:00 – 10:20	“Tracking Collective Spin and Charge Excitations through Time-Resolved Raman and RIXS Spectra” (YSA-2) Yao Wang, <i>Harvard Institute</i>
10:20 – 10:50	Coffee Break
[Future of IXS]	Session Chair: John Hill, <i>Brookhaven National Laboratory</i>
10:50 – 11:30	“New developments in Inelastic X-ray Scattering at the Advanced Photon Source” (P-8) Thomas Gog, <i>Argonne National Laboratory</i>
11:30 – 12:10	“IXS Opportunities offered by High Repetition Rate X-ray Free Electron Lasers” (P-9) Chi-Chang Kao, <i>SLAC National Accelerator Laboratory</i>
12:10 – 12:40	“IXS2019 Summary & Next IXS Conference” Arun Bansil, <i>Northeastern University</i>
12:40 – 13:45	Lunch (boxed to go), Conference Adjourn
13:45 – 14:30	Bus to Vineyard LIRR trains departing at Stony Brook @ 1:19PM, 2:46PM, 4:18PM
14:30 – 16:30	Excursion: Wine tasting
16:30 – 17:30	Bus for SBU

Poster Presentation List

Poster	Presenting Author	Institution	Title
PT-1	Alatas, Ahmet	Argonne National Laboratory	Commissioning of New CdTe Pilatus Area Detector for High-Energy Resolution Inelastic Scattering Spectrometer at Sector 30 Advanced Photon Source
PT-2	Asakura, Daisuke	National Institute of Advanced Industrial Science and Technology	Operando RIXS studies of electrode materials for Li-ion batteries to under-stand the redox reactions
PT-3	Asakura, Kiyotaka	Hokkaido University	Evidence for MARK-Raman (Multi Atom Resonance X-ray Raman)
PT-4	Betto, Davide	Max Planck Institute for Solid State Physics	Bimagnon tail in the magnetic excitations of $\text{Sr}_2\text{CuO}_2\text{Cl}_2$ and La_2CuO_4
PT-5	Caliebe, Wolfgang	Deutsches Elektronen Synchrotron (DESY)	Options for Inelastic X-ray Scattering at PETRA IV
PT-6	Dashwood, Cameron	University College London	Momentum-resolved lattice dynamics of parent and electron-doped Sr_2IrO_4
PT-7	De La Rosa, Angel	The University of Texas at El Paso	Fabrication of Single Perovskite Solar Cells and Projection to Increase Voc via SnO_2 Experimentation
PT-8	Dziarzhyski, Siarhei	Deutsches Elektronen Synchrotron (DESY)	Time-resolved high-resolution resonant inelastic soft X-ray scattering at the 3d transition metal M-edge: the NiO case
PT-9	Elbers, Mirko	Technische Universität Dortmund/DELTA	Combining x-ray emission and x-ray Raman spectroscopy for the study of Earth materials at high pressure and high temperature
PT-10	Elbers, Mirko	Technische Universität Dortmund/DELTA	X-ray Raman scattering study of hydrothermal fluids: The case of aqueous sodium chloride solutions
PT-11	Elnaggar, Hebatalla	Utrecht University	Trimeron correlations above the Verwey temperature in Magnetite?
PT-12	Elnaggar, Hebatalla	Utrecht University	Magnetic contrast at spin-flip excitations: An advanced X-ray tool to study magnetic-ordering
PT-13	Elnaggar, Hebatalla	Utrecht University	Non-collinear ordering of the magnetic orbital moments in magnetite
PT-14	Fritsch, Katharina	Helmholtz-Zentrum Berlin	PEAXIS – The new RIXS and XPS endstation at BESSY II

Poster	Presenting Author	Institution	Title
PT-15	Fumagalli, Roberto	Politecnico di Milano	Dispersing orbital excitations in the quasi-1D and 2D cuprates
PT-16	Gilmore, Keith	Brookhaven National Laboratory	Probing the RIXS Raman-to-fluorescence crossover in BaFe ₂ As ₂
PT-17	Gopinath, David	XCAM Ltd	The first experimental measurements of in-house X-ray resolution tests on a RIXSCam
PT-18	Guo, Meiyuan	Lund University	Ab initio simulation of 1s2p resonant inelastic X-ray scattering spectroscopy
PT-19	Haverkort, Maurits	Heidelberg University	Sum-rules in resonant and non-resonant IXS
PT-20	Hodges, Deidra	The University of Texas at El Paso	Synchrotron and optical probing of hybrid organic-inorganic perovskite halides for photovoltaics
PT-21	Hoesch, Moritz	Deutsches Elektronen Synchrotron (DESY)	Lattice dynamics evidence for a structural instability involving the conduction electrons in the unconventional superconductor K ₂ Cr ₃ As ₃
PT-22	Huang, Hsiao-Yu	National Synchrotron Radiation Research Center	Spin fluctuations of multiferroic collinear magnet Fe ₂ Mo ₃ O ₈ revealed by RIXS
PT-23	Ishii, Kenji	National Institutes for Quantum and Radiological Science and Technology	Spin excitations in La _{2-x} Sr _x CuO ₄ : comparison of temperature dependence between RIXS and INS
PT-24	Jin, Wentao	University of Toronto	RIXS Study of uniaxially strained Sr ₂ IrO ₄
PT-25	John Mukkattukavil, Deepak	Uppsala University	RIXS investigations correlated electron materials at high-resolution beamlines
PT-26	Kalinko, Aleksandr	Paderborn University	High resolution hard x-ray spectroscopy at PETRA III beamline P64
PT-27	Kim, Jinkwang	Institute for Basic Science	Flat-crystal based Resonant Inelastic X-ray Scattering Spectrometer for Measurements under High Pressure
PT-28	Kumar, Umesh	University of Tennessee	Accessing fractionalized quasiparticle excitations in one-dimensional antiferromagnets using resonant inelastic x-ray scattering
PT-29	Kummer, Kurt	European Synchrotron Radiation Facility	RixsToolBox – An open source software for the analysis of RIXS data acquired with 2D position sensitive detectors

Poster	Presenting Author	Institution	Title
PT-30	Kummer, Kurt	European Synchrotron Radiation Facility	The RIXS spectrometer at the ESRF soft X-ray beamline ID32
PT-31	Lebert, Blair	University of Toronto	RIXS investigation of dd excitations in α -RuCl ₃
PT-32	Lee, Sangjun	University of Illinois, Urbana-Champaign	Resonant inelastic x-ray scattering study of charge density wave in optimally doped La _{2-x} Ba _x CuO ₄ using transition edge sensor detector
PT-33	Leedahl, Brett	Max Planck Institute for Chemical Physics of Solids	The Origin of Ising Magnetism in Ca ₃ O ₂ O ₆ Unveiled by Orbital Imaging
PT-34	Mazzone, Daniel	Brookhaven National Laboratory	Ultrafast dynamics of spin and orbital correlations in layered iridates
PT-35	Minola, Matteo	Max Planck Institute for Solid State Research	Spin excitations in ultrathin superconducting cuprates
PT-36	Nag, Abhishek	Diamond Light Source, United Kingdom	Resonance behaviour of magnon and double-magnon excitations in NiO
PT-37	Nagao, Tatsuya	Gunma University	Analysis of magneto-orbital excitation from iridates via resonant inelastic scattering in a weak-coupling itinerant electron approach
PT-38	Nicolaou, Alessandro	Synchrotron SOLEIL	Temperature and doping dependence of the crystal field excitations in La _{1-x} Sr _x VO ₃ family of compounds near the Mott insulator limit
PT-39	Paerschke, Ekaterina	University of Alabama at Birmingham	Lattice tuning and magnetic frustration in Sr ₂ IrO ₄ and Sr ₃ Ir ₂ O ₇ as seen by RIXS and Raman scattering
PT-40	Qian, Jason	XRS TECH LLC	Development of X-ray Crystal Analyzers
PT-41	Rahn, Marein	Los Alamos National Laboratory	Cooperative valence dynamics in Anderson lattices observed by resonant inelastic x-ray scattering
PT-42	Sheets, Donal	University of Connecticut - Storrs	Resonant Inelastic X-ray Scattering investigation of itinerate states in Rare Earth Hexaborides
PT-43	Shvyd'ko, Yuri	Argonne National Laboratory	Aberration-free imaging of inelastic scattering spectra with x-ray echo spectrometers and spectrographs
PT-44	Singh, Amol	National Synchrotron Radiation Research Center	Electronic and Magnetic Excitations of Cuprates La _{2-x} Sr _x CuO ₄ Revealed by Soft X-ray RIXS

Poster	Presenting Author	Institution	Title
PT-45	Suvorov, Alexey	Brookhaven National Laboratory	Numerical study of crystal optics misalignment effect on the performance of high energy-resolution focusing monochromator
PT-46	Suzuki, Hakuto	Max Planck Institute for Solid State Research	Pseudospin energy levels in the Kitaev spin liquid candidate α - RuCl_3 revealed by resonant inelastic x-ray scattering at the Ru L_3 edge
PT-47	Titus, Charles	Stanford University	2p3d RIXS as a complement to L-edge XAS
PT-48	Tjeng, Hao	Max Planck Institute for Chemical Physics of Solids	Determining the Ground State and the Crystal Field Splitting of MnS by Orbital Imaging
PT-49	Vale, James	University College London	Observing dynamical critical scaling with RIXS
PT-50	Valerio, Luis	The University of Texas at El Paso	Analysis of Device Fabrication's Process for Optimization of Perovskite Solar Cells
PT-51	Van Kuiken, Benjamin	Max Planck Institute for Chemical Energy Conversion	2p3d RIXS of Ferric Porphyrin Complexes
PT-52	Verbeni, Roberto	European Synchrotron Radiation Facility	Crystal Analyser Laboratory at the ESRF
PT-53	Vitova, Tonya	Karlsruher Institut für Technologie (KIT)	Structural properties of actinides applying M4,5 edge high resolution XANES and 3d4f RIXS
PT-54	Wang, Ru-Pan	Utrecht University	Energy and angular dependence of saturation and self-absorption effects in resonant inelastic X-ray scattering
PT-55	Wang, Ru-Pan	Utrecht University	The angular dependence of orbital excitations in strained LaCoO_3 films
PT-56	Wang, Yilin	Brookhaven National Laboratory	EDRIXS: An open source toolkit for simulating spectra of resonant inelastic x-ray scattering
PT-57	Xiao, Yuming	Argonne National Laboratory	Inelastic X-ray Scattering under High Pressure at 16 ID-D of HPCAT
PT-58	Yoneyama, Akio	SAGA Light Source	Feasibility study of elemental mapping using ratio of elastic and inelastic back-scattered X-rays

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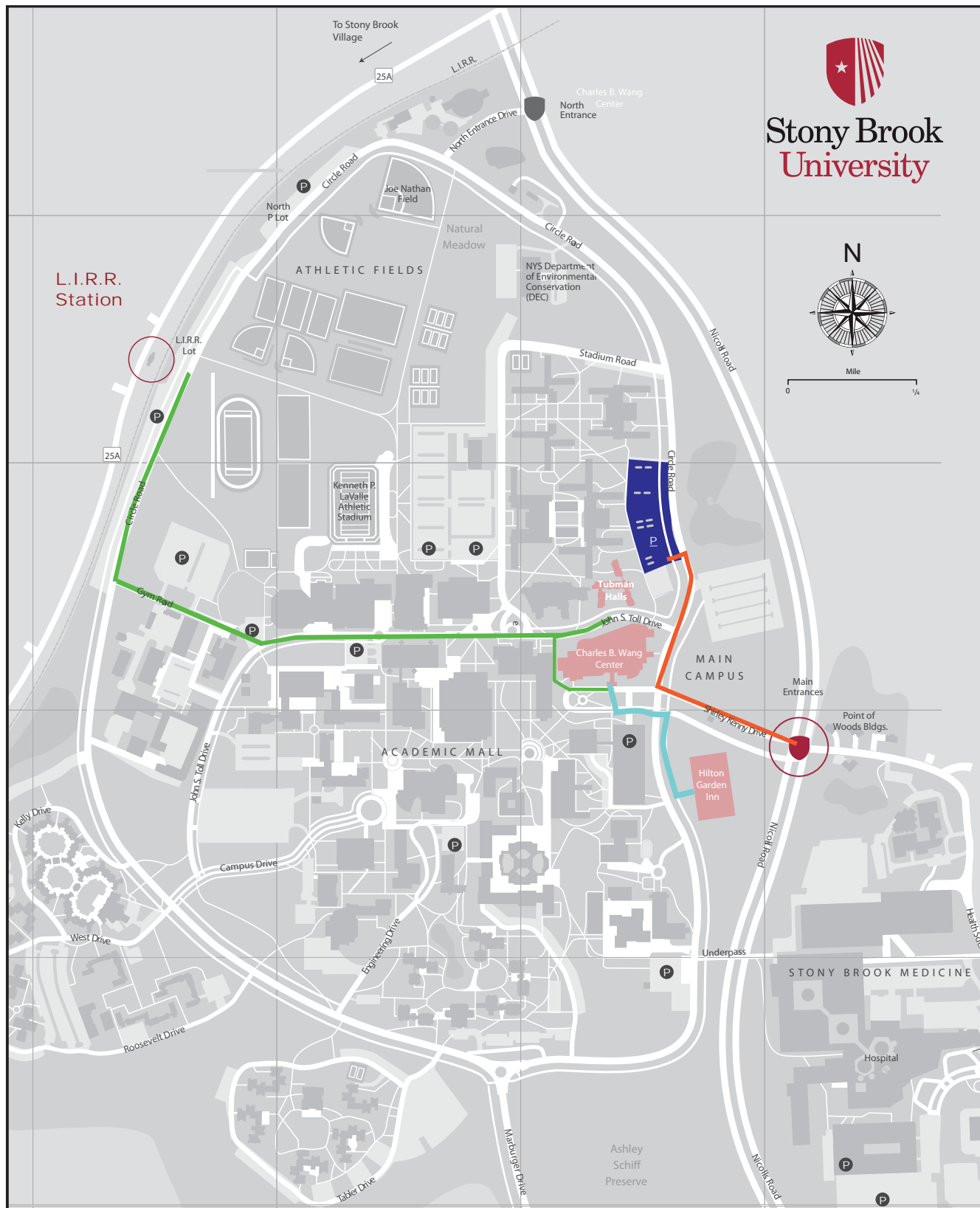
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 Hilton Garden Inn, Wang Center, Tubman Halls (SBU Dorm)

 Walking route from Hilton to Wang Center

 Campus Entrance

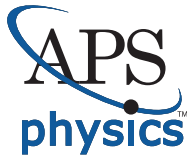
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