

8th Joint BER II and BESSY II User Meeting



Dec. 7th to Dec. 9th

WISTA-Centre/BESSY II, Berlin-Adlershof and Lise-Meitner-Campus Berlin-Wannsee

Wednesday, December 7th, 2016 :
Young Scientists and Synchrotron Day

Wilhelm-Conrad-Roentgen Campus
Albert-Einstein-Str. 15
Rudower Chaussee 17
12489 Berlin

13:30 – 18:00	Registration and Vendor Exhibition	WISTA Centre
14:00 – 15:50	Synchrotron Session (Chair: Christian Jung)	Bunsen Auditorium
14:00	Thomas Frederking (HZB) Welcome	
14:10	Andreas Jankowiak (HZB) Accelerator Operation and Projects @ HZB	
14:30	Alexander Föhlisch (HZB) BESSY II: Photon Science and BESSY VSR	
14:50	Simone Raoux (HZB) Status of Energy Materials In-situ Lab (EMIL) at BESSY II	
15:10	Emad Flear Aziz (HZB) High-Resolution Spectrometer PEAXIS at BESSY II: Wide-Q-Range RIXS and ARPES Measurements on Solids, Solutions and at Interfaces	
15:30	Klaus Kiefer (HZB) Sample Environment at BESSY II	
15:50 – 16:05	General Discussion	Bunsen Auditorium
16:05 – 16:30	Coffee Break	WISTA Centre
16:30 – 18:00	Young Scientist Session (Chair: Benedetta Casu)	Bunsen Auditorium
16:30	Eva Absmeier (FU Berlin) Molecular control mechanisms in the Brr2 RNA helicase for efficient and regulated splicing	
16:45	Stefan Permien (CAU Kiel) What happens structurally and electronically during the Li Conversion Reaction of CoFe₂O₄ Nanoparticles: An Operando XAS and XRD Investigation	
17:00	Julia Maibach (Uppsala University) Buried Interfaces in Lithium Ion Batteries Probed with HAXPES	
17:15	Siobhan McKeown (Universite de Genève) ARPES studies of the STO (001) 2DEG	
17:30	Marein Rahn (University of Oxford) All-in/all-out magnetic order in rare earth iridates	
17:45	Elmar Kataev (M.V. Lomonosov Moscow State University) Oxygen reduction reaction on graphene in Li-air batteries	
18:00-19:00	Afterwards: classic curried sausage with “Schrippen” and beer	Bunsen Auditorium

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Thursday, December 8th, 2016 :

Science Day

Wilhelm-Conrad-Roentgen Campus
Albert-Einstein-Str. 15
Rudower Chaussee 17
12489 Berlin

9:00 – 16:00 Vendor Exhibition

WISTA Centre

8:30 – 9:30 Registration and Poster Set-up

WISTA Centre

9:30 – 9:40 Opening

Anke Kaysser-Pyzalla (HZB)

Bunsen Auditorium

9:40 – 10:10 Key Note Lecture (Chair: Carolin Schmitz-Antoniak)

Eduardo Higino da Silva Neto (University of California, Davis)

Electronic Order in High- T_c Cuprate Superconductors

10:10 – 10:40 Coffee Break and Vendor Exhibition

WISTA Centre

10:40 – 12:20 Oral Presentations I (Chair: Emil J.W. List-Kratochvil)

Bunsen Auditorium

10:40 *Stefan Kaskel (TU Dresden)*

In situ-observation of novel switching phenomena in highly porous Metal-Organic Frameworks

11:00 *Hiroki Wadati (University of Tokyo)*

Photoinduced demagnetization and insulator-to-metal transition in ferromagnetic insulating BaFeO₃ thin films

11:20 *Markus Morgenstern (RWTH Aachen)*

ARPES measurements of the ferroelectric bulk Rashba system GeTe

11:40 *Joachim Reichert, (TU München)*

Bisphenol A on Cu(111) and Ag(111): From Chemical Reactivity to Rotor Arrays

12:00 *Erik Vesselli (University of Trieste)*

Reverse Water-Gas Shift or Sabatier Methanation on Ni(110)? Stable Surface Species at Near-Ambient Pressure

12:20 – 13:30 Lunch Break

(Canteens on site)

13:30 – 15:10 Oral Presentations II (Chair: Susan Schorr)

Bunsen Auditorium

13:30 *Oliver Daumke (MDC Berlin)*

Structural studies of molecular machines

13:50 *Hans-Joachim Elmers (Johannes Gutenberg Universität)*

Multi-MHz time-of-flight electronic bandstructure imaging of graphene on Ir(111)

14:10 *Dennis Wiedemann (TU Berlin)*

Diffusion Pathways in Ion Conductors: Making the Most of Neutron-Diffraction Data

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14:30	<i>Annette Pietzsch (HZB)</i> Ground state potential energy surfaces around selected atoms from resonant inelastic x-ray scattering	
14:50	<i>Christina Roth (FU Berlin)</i> Characterization of electrocatalysts using a combination of XAS and DRIFTS	
15:10 – 15:40	Coffee Break and Vendor Exhibition	WISTA Centre
15:40 – 15:50	Report from the User Committee	Bunsen Auditorium
15:50 – 17:00	Bestowal of Prizes: Friends of Helmholtz-Zentrum Berlin e.V. <i>(Chair: Mathias Richter)</i>	Bunsen Auditorium
17:00 – 18:00	Public Lecture <i>(Chair: Francesco Allegretti)</i> <i>Lídice Vaillant Roca (University of La Habana)</i> Solar Energy in an Emerging Country, Perspectives and the Need for International Cooperation	Bunsen Auditorium
18:00 – 20:00	Poster Session	(BESSY II Experimental Hall)
20:00	Berliner Buffet and Poster Prize (sponsored by the companies participating in the vendor exhibition)	(BESSY II Foyer)

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Friday, December 9th, 2016:

Young Scientists and Neutron Day

Lise-Meitner Campus
Hahn-Meitner-Platz 1
14109 Berlin

8:30-9:00 Registration

(LMC-Foyer and Café Jahn)

9:00 – 9:50 Neutron Session (Chair: Klaus Habicht)

(Lecture Hall)

9:00 *Anke Kaysser-Pyzalla (HZB)*

Opening

9:10 *Sebastian Risse (HZB)*

In-Situ Neutron Analysis of Electrode Materials for electrochemical Energy Storage

9:30 *Katharina Fritsch (HZB)*

Structure and transport properties in thermoelectric skutterudites

9:50 – 11:05 Young Scientists Session (Chair: Susan Schorr)

(Lecture Hall)

9:50 *Manuel Weiss (JLU Gießen)*

Investigating the interphase formation on solid lithium ion conductors by neutron reflectometry

10:05 *Sandra Cabeza (BAM)*

Load partition and damage characterization of cast AlSi₁₂CuMgNi alloy with one- and two ceramic reinforcements

10:20 *Simon Krause (TU Dresden)*

Neutrons shed light on methane adsorption mechanism in a series of highly porous metal-organic frameworks

10:35 *Alsu Gazizulina (Universität Zürich)*

Study of the structure and magnetic interactions in dimer system Ba_(3-x)Sr_xCr₂O₈

10:50 *Simone Mascotto (Universität Hamburg)*

Distribution of S in C-S nanocomposites analyzed by small-angle scattering methods

11:05-11:25 **Coffee Break**

11:25-12:45 HFM/EXED Session (Chair: Bella Lake)

11:25 *Oleksandr Prokhnenko (HZB)*

Current status of HFM-EXED facility and its upgrade

11:45 *Matej Pregelj (Institut "Jozef Stefan")*

Pursuit of spin nematicity in s=1/2 frustrated zigzag chain beta-TeVO₄

12:05 *Karel Prokes (HZB)*

Electronic properties of U(Ru_{0.92}Rh_{0.08})₂Si₂ in high magnetic fields

12:25 *Ted Forgan (University of Birmingham)*

Field-dependent superconducting anisotropy and Pauli-paramagnetism in YBa₂Cu₃O₇ studied by time-of-flight small-angle neutron scattering from vortices in high fields

12:45 – 14:15

Poster Session and Lunch

(Café Jahn)

14:15 HFM/EXED Tour