# 9th Joint BER II and BESSY II User Meeting

**HZB**

**Dec. 13th to Dec. 15th**

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

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### Wednesday, December 13th, 2017:
**Young Scientists and Synchrotron Day**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>13:30 – 18:00</td>
<td>Registration and Vendor Exhibition</td>
<td>WISTA Centre</td>
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<tr>
<td>14:00 – 15:50</td>
<td><strong>Synchrotron Session</strong> <em>(Chair: Christian Jung)</em></td>
<td>Bunsen Auditorium</td>
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<tr>
<td>14:00</td>
<td><em>Bernd Rech (HZB)</em> Welcome</td>
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<td>14:10</td>
<td><em>Andreas Jankowiak (HZB)</em> Accelerator Operation and Projects @ HZB</td>
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<td>14:30</td>
<td><em>Alexander Föhlisch (HZB)</em> BESSY II: Photon Science</td>
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<td>14:50</td>
<td><em>Paul Goslawski (HZB)</em> BESSY II: few bunch mode, island buckets and twin orbit test week</td>
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<td>15:10</td>
<td><em>Ieva Bidermane (HZB)</em> Electron-Electron Coincidence Station at BESSY II</td>
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<td>15:30</td>
<td><em>Gerd Schneider (HZB)</em> Developments in X-ray Microscopy</td>
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<td>15:50 – 16:05</td>
<td><strong>General Discussion</strong></td>
<td>Bunsen Auditorium</td>
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<td>16:05 – 16:30</td>
<td><strong>Coffee Break</strong></td>
<td>WISTA Centre</td>
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<tr>
<td>16:30 – 17:45</td>
<td><strong>Young Scientists Session</strong> <em>(Chair: Carolin Schmitz-Antoniak)</em></td>
<td>Bunsen Auditorium</td>
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<td>16:30</td>
<td><em>Kateryna Medjanik (Johannes Gutenberg Universität Mainz)</em> New way of performing ARPES by time-of-flight momentum microscopy</td>
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<td>16:45</td>
<td><em>Rebecka Lindblad (Lund University)</em> X-ray absorption and XMCD of cationic molecules studied in gas-phase</td>
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<td>17:00</td>
<td><em>Tobias Bock (Max Delbrück)</em> Crystal structures and beyond – the alternative myxobacterial isovaleryl CoA biosynthesis and its regulation</td>
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<td>17:15</td>
<td><em>Miriam Weller (Johann Wolfgang Goethe-Universität Frankfurt am Main)</em> Imaging the Temporal Evolution of Molecular Orbitals during Ultrafast Dissociation</td>
<td></td>
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<tr>
<td>17:30</td>
<td><em>Soohyung Park (Humboldt Universität Berlin)</em> Direct determination of monolayer MoS₂ and WSe₂ exciton binding energies on insulating and metallic substrates</td>
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<td>18:00-20:00</td>
<td><strong>Traditional curried sausage with “Schrippen” and beer</strong></td>
<td>Bunsen Auditorium</td>
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## Thursday, December 14th, 2017: Science Day

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00 – 16:00</td>
<td>Vendor Exhibition</td>
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<tr>
<td>8:30 – 17:00</td>
<td>Registration and Poster Set-up</td>
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<tr>
<td>9:30 – 9:40</td>
<td>Opening</td>
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<td>9:40 – 10:10</td>
<td>Key Note Lecture   (Chair: Christian Papp)</td>
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<tr>
<td>10:10 – 10:40</td>
<td>Coffee Break and Vendor Exhibition</td>
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<tr>
<td>10:40 – 12:20</td>
<td>Oral Presentations I   (Chair: Catherine Dubourdieu)</td>
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<td>12:20 – 13:30</td>
<td>Lunch Break</td>
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<tr>
<td>13:30 – 15:10</td>
<td>Oral Presentations II  (Chair: Svante Svensson)</td>
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### Vendor Exhibition
- WISTA Centre

### Registration and Poster Set-up
- WISTA Centre

### Opening
- Bunsen Auditorium
- Bernd Rech (HZB)

### Key Note Lecture
- Roel van de Krol (HZB)
- New Infrastructures at HZB for Energy Materials Research

### Coffee Break and Vendor Exhibition
- WISTA Centre

### Oral Presentations I
- Bunsen Auditorium
  - 10:40 Anna Palau (ICMAB-CSIC, Barcelona)
    - Encoding Magnetic States in Monopole-Like Configurations Using Superconducting Dots
  - 11:00 Niels Bech Christensen (DTU)
    - Magnetic phase diagram of strongly magnetoelectric LiCoPO$_4$
  - 11:20 Peter Strasser (TU Berlin)
    - In situ electrocatalysis – watching the dark side of solar fuels at work
  - 11:40 Christian Papp (Universität Erlangen-Nürnberg)
    - Liquid Organic Hydrogen Carriers (LOHCs) - Towards a Hydrogen-free Hydrogen Economy
  - 12:00 Denis Vyalikh (CSIC-UPV/EHU)
    - Exotic magnetism and electron-correlation phenomena in rare-earth based antiferromagnets

### Oral Break
- Canteens on site

### Oral Presentations II
- Bunsen Auditorium
  - 13:30 Benjamin Palmer (Weizmann Institute of Science)
    - Crystal-Eyes: Biogenic Crystals used for Vision
  - 13:50 Quentin Berrod (CEA)
    - Transport properties of ionic liquids under 1D nanometric confinement
  - 14:10 Yves Muller (Uni Erlangen-Nürnberg)
    - Insight into herpesvirus replication from structural studies at the HZB-MX beamlines
  - 14:30 Justin Wells (Norwegian University of Science and Technology)
    - In Situ Patterning of Ultrasharp Dopant Profiles in Silicon
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<td>14:50</td>
<td><strong>Stephan Hofmann (University of Cambridge)</strong> Integrated Crystal Growth of Advanced Nanomaterials: from model systems to integrated manufacturing</td>
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<td>15:10 – 15:40</td>
<td><strong>Coffee Break and Vendor Exhibition</strong></td>
<td>WISTA Centre</td>
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<tr>
<td>15:40 – 15:50</td>
<td><strong>Christian Papp (Universität Erlangen-Nürnberg)</strong> Report from the User Committee</td>
<td>Bunsen Auditorium</td>
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<td>15:50 – 17:00</td>
<td><strong>Bestowal of Prizes: Friends of Helmholtz-Zentrum Berlin e.V. (Chair: M. Richter)</strong></td>
<td>Bunsen Auditorium</td>
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<tr>
<td>17:00 – 18:00</td>
<td><strong>Public Lecture (Chair: Emil List-Kratochvil)</strong> George Malliaras (University of Cambridge) Interfacing with the brain using organic electronics</td>
<td>Bunsen Auditorium</td>
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<tr>
<td>18:00 – 20:00</td>
<td><strong>Poster Session</strong></td>
<td>(BESSY II Experimental Hall)</td>
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| 20:00    | **Berliner Buffet and Poster Prize** (sponsored by the companies participating in the vendor exhibition) | (BESSY II Foyer) }
## Friday, December 15th, 2017:
### Young Scientists and Neutron Day

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>8:30-9:00</td>
<td><strong>Registration</strong></td>
<td>(LMC-Foyer)</td>
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<tr>
<td>9:00-10:30</td>
<td><strong>Neutron Session</strong> (Chair: Klaus Habicht)</td>
<td>(Lecture Hall)</td>
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<tr>
<td>9:00</td>
<td><em>Bernd Rech (HZB)</em> Opening</td>
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<td>9:10</td>
<td><em>Siqin Meng (CIAE/HZB Guest)</em> MultiFLEXX: the multi-energy array analyzer at FLEXX</td>
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<td>9:30</td>
<td><em>Eneli Härk (HZB)</em> Chasing electrons with neutrons – Investigation of the microstructure of RP-20 carbon electrode</td>
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<td>9:50</td>
<td><em>Michael Tovar (HZB)</em> Experimental opportunities of the X-ray CoreLab: Crystal Structure, Stress, Texture</td>
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<tr>
<td>10:10</td>
<td><em>Markus Wollgarten (HZB)</em> The CoreLab Correlative Spectroscopy and Microscopy at HZB at a glance</td>
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<td>10:30-11:00</td>
<td><strong>Coffee Break</strong></td>
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<tr>
<td>11:00-12:30</td>
<td><strong>Young Scientists Session</strong> (Chair: Susan Schorr)</td>
<td>(Lecture Hall)</td>
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<tr>
<td>11:00</td>
<td><em>Miriam Steinhauer (DLR)</em> In situ Studies of Solid Electrolyte Interphase (SEI) Formation on Carbon Surfaces by Neutron Reflectometry</td>
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<td>11:15</td>
<td><em>Leonie Heinze (TU Braunschweig)</em> Magnetism of atacamite, Cu$_2$Cl(OH)$_3$</td>
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<tr>
<td>11:30</td>
<td><em>Pavlo Portnichenko (TU Dresden)</em> Magnetic-field dependence of the ferromagnetic excitation in the heavy-fermion metal CeB$_6$</td>
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<td>11:45</td>
<td><em>Rasmus Palm (University of Tartu)</em> Small angle neutron scattering for determination of porous structure of molybdenum carbide-derived carbons</td>
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<tr>
<td>12:00</td>
<td><em>Anton Werwein (Universität Leipzig)</em> Zintl phase hydrides LaGaD$_x$, TmGaD$_x$ and NdSiD$_x$</td>
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<td>12:15</td>
<td><em>Jooseop Lee (Cornell University)</em> Study on high magnetic field phase of UPt$_2$Si$_2$</td>
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<tr>
<td>12:30-14:00</td>
<td><strong>Poster Session and Lunch</strong></td>
<td>(Café Jahn)</td>
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