

**BESSY VSR - WORKSHOP**
**"THE VARIABLE PULSE LENGTH SYNCHROTRON RADIATION SOURCE"**
**Berlin, 14 – 15 October 2013 - PROGRAMME**

<b>DAY 1 – 14th October 2013</b>	
11:45 a.m.	Registration
01:00 p.m.	Welcome
01:10 p.m.	<b>BESSY VSR – Status</b>  <b><i>BESSY VSR: Science opportunities and current developments</i></b> Alexander Föhlisch, Helmholtz-Zentrum Berlin
01:35 p.m.	<b><i>BESSY VSR: The accelerator physics of BESSY VSR</i></b> Andreas Jankowiak, Helmholtz-Zentrum Berlin
02:00 p.m.	<b>Science Drivers - Session I: Basic Energy Science &amp; Chemistry</b>  <b><i>Ultrafast X-ray absorption spectroscopy of solutions: new avenues</i></b> Majed Chergui, EPFL Lausanne  <b><i>From Quantum Materials to Solvation Dynamics: Experiments proposed for picosecond x-rays at the Advanced Photon Source</i></b> Linda Young, Argonne National Lab Chicago  <b><i>New opportunities in liquid-phase science via picosecond soft X-ray spectroscopy</i></b> Nils Huse, CFEL Hamburg  <b><i>Structural Dynamics in (Bio)chemical Systems</i></b> Simone Techert, DESY Hamburg, Institute for X-ray Physics, GAU / Max Planck Institute for Biophysical Chemistry
03:50 p.m.	Coffee Break
04:20 p.m.	<b>Science Drivers - Session I: Basic Energy Science &amp; Chemistry</b>  <b><i>Electronic structure movies - opportunities with time-resolved x-ray spectroscopy</i></b> Wilfried Wurth, Universität Hamburg  <b><i>Opportunities for electron spectroscopy at the VSR source at HZB Berlin</i></b> Nils Mårtensson, Uppsala Universitet  <b><i>Development of a time, energy and momentum spectrometer based on angular resolved time of flight measurement</i></b> Svante Svensson, Uppsala Universitet
06:00 p.m.	End of Day 1

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DAY 2 – 15th October 2013	
09:00 a.m.	<b>Science Drivers - Session II: Future Information Technology</b>  <i>Studies of Magnetization Dynamics at the Jülich Beamline</i> Claus Michael Schneider, Peter Grünberg Institut, Forschungszentrum Jülich  <i>The Future of Information Technology seen with X-Rays</i> Hermann Durr, SLAC Stanford  <i>The use of Variable Pulse Length in Magnetism Research: From Skyrmion Dynamics to Ultrafast Magnetization Changes</i> Stefan Eisebitt, Technische Universität Berlin
10:15 a.m.	<b>Session III: VSR Accelerator Physics</b>  <i>Short pulse plans for SPEAR3 and PEP-X</i> James Safraneck, SLAC Stanford  <i>Discussion of Machine Parameters</i>
11:05 a.m.	Coffee Break
11:35 a.m.	<b>Science Drivers - Session IV: Quantum Materials</b>  <i>Towards a complete understanding of magnetization dynamics in lanthanides - new frontiers in spin-dependent band mapping at BESSY VSR</i> Martin Weinelt, Freie Universität Berlin  <i>Spin Resonance at Terahertz Frequencies</i> Johan van Tol, Florida State University, National High Magnetic Field Laboratory, Tallahassee  <i>Examples of Ultrafast X-ray Diffraction Experiments: Synchrotron vs. Laser-Plasma Sources</i> Matias Bargheer, Universität Potsdam
01:00 p.m.	Lunch Break
02:00 p.m.	<b>Plenary Discussion</b>
03:00 p.m.	End of Workshop
03:00 - 04:00 p.m.	<i>Closed Session (for invited speakers)</i>