

15 Years of Russian-German Laboratory at BESSY II

Workshop at Helmholtz-Zentrum Berlin - Program -

Thursday, 7 December 2017		
8:00	Registration	Foyer
9:00	Opening	Lecture Hall
9:45	Memorial Session for Prof. V. K. Adamchuk	
9:45	Günther Kaindl/Wolfgang Gudat <i>Vera Konstantinovna Adamchuk and the Russian-German Laboratory at BESSY II</i>	Lecture Hall
10:00	Coffee break	
10:45	Serguei Molodtsov (European XFEL/TU Bergakademie Freiberg) <i>From optical derivation with pocket mirrors to X-ray Free Electron Lasers</i>	
11:10	Andrey Vilesov (University of Southern California) <i>Coherent diffractive imaging of vortices in helium droplets</i>	
11:35	Clemens Laubschat (TU Dresden) <i>15 years collaboration at the Russian-German laboratory at BESSY-II</i>	
12:00	Alexander Shikin (St. Petersburg State Univ.) <i>Synchrotron radiation induced magnetization in magnetically doped and pristine topological insulators</i>	Lecture Hall
12:25	Dmitry Usachov (St. Petersburg State Univ.) <i>Synthesis, structure and tuneable electronic properties of pure and doped graphene</i>	
12:50	Lunch	
14:00	Alexander Saranin (Inst. of Automation and Control Processes, RAS, Vladivostok) <i>2D Compounds on Si(111) and Ge(111) surfaces</i>	Lecture Hall
14:25	Oliver Rader (HZB) <i>The controversial physics of samarium hexaboride</i>	
14:50	Elena Filatova (St. Petersburg State Univ.) <i>X-Ray spectroscopic methods for study of physics and chemistry of metal/ insulator interface barrier formation</i>	
15:15	Coffee break	Foyer
15:45	Andrei Varykhalov (HZB) <i>Spin-orbit textures in the electronic structure of nanopatterned graphene</i>	Lecture Hall
16:10	Denis Vyalikh (Donostia International Physics Center, San Sebastian) <i>Exotic magnetism and electron-correlation phenomena in rare-earth based antiferromagnets</i>	
16:35	Artem Rybkin (St. Petersburg State Univ.) <i>Rashba spin-orbit and exchange coupling in graphene</i>	
17:00	Bus transfer to the Russian Embassy	
18:00	Reception at the Russian Embassy (Only participants registered and confirmed for the dinner.)	Russian Embassy
	Bus transfer back to the WCR-Campus Berlin-Adlershof.	

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9:00	Session “Progress of the Russian-German Laboratory at BESSY II”	
9:00	Anna Makarova (TU Dresden): <i>RGBL-1: Recent Progress and Future Perspectives</i>	Lecture Hall
9:25	Daniil Itkis (Lomonosov Moscow State Univ.) <i>Studying materials for next generation lithium batteries at RGBL</i>	
9:50	Alexander Grüneis (Univ. zu Köln) <i>Combined ultra-high vacuum optical and photoemission spectroscopy of functional 2D materials</i>	
10:15	Coffee break	Foyer
10:45	Elena Grachova (St. Petersburg State Univ.) <i>Supramolecular cluster complexes of copper subgroup metals: some features of architecture and controlled formation of hybrid nanostructures</i>	Lecture Hall
11:10	Lada Yashina (Lomonosov Moscow State Univ.) <i>Photoemission studies of topological insulators and low-dimensional semiconductors</i>	
11:35	Vera Neudachina (Lomonosov Moscow State Univ.) <i>Chemical Bonding, Electronic Structure and Surface Reactivity of Clathrate Materials for Advanced Thermoelectric Applications</i>	
12:00	Dmitry Marchenko (HZB) <i>Photoemission Electron Microscope for the Russian-German Laboratory</i>	
12:25	Liubov Bulusheva (Nikolaev Institute of Inorganic Chemistry, Novosibirsk) <i>In situ XPS and NEXAFS investigation of lithium interaction with modified graphene surfaces</i>	
12:50	Lunch	Foyer
14:00	Session “Towards time-resolved experiments at the European XFEL and BESSY II/VSR”	
14:00	Andreas Scherz (European XFEL, Hamburg) <i>Science opportunities at the Soft X-ray instrument SCS at European XFEL</i>	Lecture Hall
14:25	Ulf Zastra (European XFEL, Hamburg) <i>High-Energy Density science at European XFEL</i>	
14:50	Alexander Soldatov (Southern Federal Univ., Rostov) <i>Time-dependent 3D local atomic structure of smart materials</i>	
15:15	Alexander Föhlisch (HZB) <i>Time-resolved perspectives: RIXS at XFEL and BESSY-VSR</i>	
15:40	Coffee break	Foyer
16:10	Jaime Sánchez-Barriga (HZB) <i>The new RGBL-2 beamline at BESSY-II: Current status and perspectives</i>	Lecture Hall
16:35	Oleg Kornilov (Max-Born-Institut, Berlin) <i>Ultrafast photoelectron spectroscopy of molecules in gas phase and in liquids</i>	
17:00	Eckart Rühl (Freie Univ. Berlin) <i>Spectroscopic and time resolved studies on free nanoparticles</i>	
17:25	Thomas Fennel (Univ. Rostock) <i>Control and ultrafast imaging of electron dynamics in clusters</i>	

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18:00	Tour through BESSY II	Experimental Hall
19:00	Buffet dinner with poster session	Foyer

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Workshop at Helmholtz-Zentrum Berlin - Poster Session -

Poster session

- 1)_ **Dmitry Smirnov** (TU Dresden)
The Russian-German Beamline at BESSY II
- 2)_ **Boris Senkovskiy** (Univ. zu Köln)
Electronic structure and functionalization of atomically precise graphene nanoribbons
- 3)_ **Andrey Bukhtiyarov** (Boreskov Institute of Catalysis, Novosibirsk)
RGBL beamline as a basement for NAP XPS investigation of bimetallic model catalysts
- 4)_ **Victor Shevelev** (St. Petersburg State Univ.)
Characterization of single-layer graphene on strongly interacting metallic substrates using Raman spectroscopy
- 5)_ **Viktor Sivkov** (Komi Research Center, RAS, Syktyvkar)
Absorption cross sections measurement in the NEXAFS C1s-edge by TEY-method
- 6)_ **Kirill Bokai** (St. Petersburg State Univ.)
Recrystallization of graphene
- 7)_ **Sergey Turishchev** (Voronezh State Univ.)
Electronic structure and phase composition of tin-oxygen system surfaces and interfaces by XANES Sn M4,5 synchrotron spectra and ab initio modeling
- 8)_ **Sergey Nekipelov** (Syktyvkar State University)
NEXAFS and XPS studies of the 3d-metal-doped bismuth titanate and bismuth niobate
- 9)_ **Manuel Izquierdo** (European XFEL, Hamburg)
Insight into the electronic properties of LaCoO₃
- 10)_ **Alexander Okotrub** (Nikolaev Institute of Inorganic Chemistry, RAS, Novosibirsk)
In situ study of graphene microcapacitors and sensors by using XPS and XANES
- 11)_ **Maxim Krivenkov** (HZB, Berlin)
Scattering resonances in graphene
- 12)_ **Anna Zakharova** (Saint-Petersburg University)
Electron structure of bismuth compounds by High-Resolution X-Ray absorption spectroscopy

as of 2 Dec.. 2017