



2017 FELBE User Workshop

April 24-25, 2017







Monday April 2	4 Building 114, Room 201/202	
13:30 – 14:00	Registration + Coffee	
14:00 – 15:00	Welcome and Opening Remarks Manfred Helm, HZDR 14:15 – 14:35 FELBE, the new U37 undulator, and Future Developments + ELBE overview Ulf Lehnert, HZDR 14:35 – 14:47 Experimental Capabilities @ FELBE Stephan Winnerl, HZDR 14:47 – 15:00	
	High-field High-Repetition-Rate THz facility, TELBE Michael Gensch, HZDR	
15:00 – 16:10	Quantum Phenomena Session Chair: Hartmut Roskos 15:00 – 15:25 Exciton-polaritons in a strong THz field - doubly dressed bosons Barbara Pietka, University of Warsaw 15:25 – 15:45 Three-dimensional topological insulators probed by photogalvanic spectroscopy Helene Plank, University of Regensburg 15:45 – 16:10 Excited state dynamics of semiconductor quantum wells excitons	
40-40 40-40	Sangam Chatterjee, University of Giessen	
16:10 – 16:40	Coffee break + Posters	
10.40 - 16:00	Semiconductor Physics & Near-Field Microscopy Session Chair: Sangam Chatterjee 16:40 – 17:15 Carrier dynamics in semiconductors studied with FEL radiation: Plasmas in field-effect transistors and nonlinear atomic physics with impurities Hartmut Roskos, University of Frankfurt 17:15 – 17:35 Quantum interference phenomena in narrow-gap semiconductors Johannes Bühler, University of Konstanz 17:35 – 18:00 Near-field infrared nanoscopy at FELBE Susanne C. Kehr, TU Dresden	
18:30	Depart for dinner in Dresden	
10.00	Dopartion annior in Diocach	

Tuesday April 25		Building 114, Room 201/202	
9:00 – 10:35	Ultrafast Dynamics in THz Detector Physics Session Chair. Boris Knyazev		
	9:00 – 9:25 Ultrafast field effect transistor-based detectors for high power THz facilities Sascha Preu, <i>University of Darmstadt</i>		
	9:25 – 9:50 Carrier recombination in doped silicon and germanium Heinz-Wilhelm Hübers, <i>DLR and Humboldt University Berlin</i>		
	9:50 – 10:15 Pump-probe study of group-V donor relaxation in uniaxially stressed silicon Valery Shastin, <i>RAS, Nizhny Novgorod</i>		
	10:15 – 10:35 Capture of photoexcited electrons into deep donor centers in silicon studied by time-resolved spectroscopy at FELBE Nils Deßmann, DLR and Humboldt University Berlin		
10:35 – 11:05	Coffee break + Posters		
11:05 – 12:20	Superconducting Materials & NovoFEL Session Chair: Heinz-Wilhelm Hübers		
	11:05 – 11:30 Terahertz Nonlinearities in Cuprate Superconductors - Revealing and Controlling Phase Coherences Srivats Rajasekaran, MPDS Hamburg		
	11:30 – 11:55 Dynamics of superconductors excited by narrowband THz pulses Jure Demsar, University of Mainz		
	11:55 – 12:20 Novosibirsk free electron laser as user facility: a review Boris Knyazev, <i>Budker Institute, Novosibirsk</i>		
12:20 – 13:05	12:20 – 13:00 Open Forum for User Comments/Suggestions/Questions Wolfgang Seidel / J. Michael Klopf, HZDR		
	13:00 – 13:05 Closing Remarks Manfred Helm, HZDR		
13:05 – 14:00	Group Photo + Lunch break		
14:00	Lab tour ELBE (Building 540)	InTerFEL closed session Building 110, Room 230	
17:00		Lab tour ELBE (Building 540)	

Posters

Low-temperature near-field spectroscopy at FELBE

Denny Lang, HZDR, Institute of Ion Beam Physics and Materials Research

Electron bunch length characterization at the Metrology Light Source using THz radiation Andreas Pohl, *DLR and Humboldt University Berlin*

Towards time-resolved nanoscopy with NIR to deep THz radiation

Frederik Kuschewski, TU Dresden, Institute of Applied Physics

Terahertz narrowband pump – broadband probe spectroscopy of intersubband transitions in a wide single quantum well

Johannes Schmidt, HZDR, Institute of Ion Beam Physics and Materials Research

FELBE, The THz/IR FEL User Facility

J. Michael Klopf, HZDR, Institute of Radiation Physics

CALIPSOplus - Removing barriers for access to accelerator-based light sources

Barbara Schramm, HZDR, Research programmes and International Projects



Special Thanks to:

- All of our Speakers and Presenters
- The FELBE Workshop Team

Barbara Schramm Stephan Winnerl Alexej Pashkin J. Michael Klopf

