

# Preliminary Schedule, MML Workshop at DESY

Dec. 14<sup>th</sup>-16<sup>th</sup>, 2016

## Wednesday, December 14<sup>th</sup>

Time	Title	Speaker	Duration
<b>Plenaries (DESY Auditorium)</b>			
14:00	Welcome / Introduction	Thomas Stöhlker	30`
14:30	RT1 / Highlights	Robin Santra	30` + 5`
15:05	RT2 / Highlights	Joachim Wosnitza	30` + 5`
15:40	RT3 / Highlights	Martin Müller	30` + 5`
16:15	Coffee break		
16:45	RT4 / Highlights	Sibylle Gemming	30` + 5`
17:20	RT5 / Highlights	Tilo Baumbach	30` + 5`
18:30	Dinner (DESY Canteen)		

## Thursday, December 15<sup>th</sup>

Time	Title	Speaker	Duration
Parallel Sessions: Research Topics			
9:00	RT 1 (SemR 4ab, Bldg. 1b), RT 5 (SemR FLASH, Bldg. 28c) and common session of RT 2, RT 3, RT 4 (DESY Auditorium)		1h30`
10:30	Coffee break		
11:00	RT 1, RT 5 and common session of RT 2, RT 3, RT 4		2h
13:00	Lunch		
14:00	Research Field Matter	Helmut Dosch	25` +5`
14:45 – 16:45	Poster Session RT 2,3,4 including Coffee (CFEL Foyer, Bldg. 99)		
Parallel Sessions: Research Topics			
17:00 - 18:30	RT 1, RT 5 and common session of RT 2, RT 3, RT 4		1h30'
19:00	Poster session RT 1,5 and Reception (CFEL Foyer, Bldg. 99)		

## Friday, December 16<sup>th</sup>

Time	Title	Speaker	Duration
Plenaries: Facility Topics / Status and Current Developments			
9:00	Research on matter with brilliant light sources (ANKA, BESSY II, FLASH, PETRA III, GEMS-P, XFEL)	Edgar Weckert	25`+5`
9:30	Neutrons for research on condensed matter (BER II, JCNS, GEMS-N, ESS)	Thomas Brückel	15`+5`
9:50	Ion Facilities Physics and materials science with ion beams (IBC, SIS/ESR/HITRAP, FAIR)	Jürgen Fassbender	15`+5`
10:10	Research at highest electromagnetic fields (HLD, ELBE, HIBEF)	Thomas Cowan	15`+5`
10:30	Coffee Break		
Plenaries: MML towards POF IV			
11:00	Resume from the RT sessions	RT Spokespersons	45`
11:45	Big Data and MML	NN	15`
12:00	New Initiatives - tba		1h
13:00	Lunch		

**MML Workshop at DESY**  
**15.12. 2016 Parallel Sessions**  
**RT1**

Time	Title	Speaker
09:00 - 09:15	Extreme-field physics in Penning traps: The ARTEMIS and HILITE experiments	Manuel Vogel (GSI)
09:15 - 09:30	High purity x-ray polarimetry with single-crystal diamonds	Hendrik Bernhardt (HZ Jena)
09:30 - 09:45	High intensity laser interactions at the quantum frontier	Matthew Zepf (HZ Jena)
09:45 - 10:00	New results for the structure of certain warm dense matter states	Jan Vorberger (HZDR)
10:00 - 10:15	Ionization potential depression in dense plasmas	Paul Neumayer (GSI)
10:15 - 10:30	Ion and electron imaging of indole and indole-water	Sebastian Trippel (DESY)
10:30 - 11:00	Coffee break	
11:00 - 11:15	Ultrafast water heating at high XFEL fluences	Ken Beyerlein (DESY)
11:15 - 11:30	Molecular dynamics investigated with free-electron lasers	Benjamin Erk (DESY)
11:30 - 11:45	A new computational tool for describing the behavior of molecules in high-intensity x-ray fields	Sang-Kil Son (DESY)
11:45 - 12:00	Narrowband inverse Compton scattering x-ray sources at high laser intensities	Sergey Rykovanov (HZ Jena)
12:00 - 12:15	Coincidence imaging of molecules with a high-photon-flux high-harmonic source	Jan Rothhardt (GSI)
12:15 - 12:30	THz-based FELs and attosecond sources	Arya Fallahi (DESY)
13:00	Lunch	
14:00	Research Field Matter / PoF IV	Helmut Dosch (DESY)
14:45	Poster Session	
17:00 - 18:30	Strategic discussions; PoF IV; the future of RT1	

**MML Workshop at DESY**  
**15.12. 2016 Parallel Sessions**  
**RT2, RT3, and RT4**

Time	Title	Speaker
09:00 - 09:20	NMR spectroscopy of frustrated quantum spin systems at highest magnetic fields	Hannes Kühne (HZDR)
09:20 - 09:40	Physical realization of a quantum spin liquid based on a complex frustration mechanism	Christian Balz (HZB)
09:40 - 10:00	Magnetism in EuFe <sub>2</sub> As <sub>2</sub> -based Iron Pnictides: Complementary Neutron and X-ray Studies	Wentao Jin (FZJ)
10:00 - 10:20	Controlling Magnon Flow in Topological Spin Textures	Helmut Schultheiß (HZDR)
10:20 - 10:30	Discussion	
10:30 - 11:00	Coffee break	
11:00 - 11:20	In situ studies of engineering materials and processes with high-energy X-rays	Peter Staron (HZG)
11:20 - 11:40	Materials and Processes for Energy and Transport Technologies @ DESY	Andreas Stierle (DESY)
11:40 - 12:00	Local structure and proton transport in HT-PEFCs measured with neutron scattering	Olaf Holderer (FZJ)
12:00 - 12:20	Studying thin-film solar cells and battery materials using electron and soft x-ray spectroscopy	Lothar Weinhardt (KIT)
12:20 - 13:00	Discussion	
13:00	Lunch	
14:00	Research Field Matter / PoF IV	Helmut Dosch
14:45	Poster Session	
17:00 - 17:20	Unusual Coulomb scattering processes in graphene	Stephan Winnerl (HZDR)
17:20 - 17:40	Lattice dynamics of rare earth silicide nanostructures	Svetoslav Stankov (KIT)
17:40 - 18:00	Investigations of nanogranular systems	Stephan Roth (DESY)
18:00 - 18:20	Nano-optical 3D devices for advanced X-ray instrumentation	Alexei Erko (HZB)
18:20 - 18:30	Final discussion	
19:00	Dinner and Poster session	

**MML Workshop at DESY**  
**15.12. 2016 Parallel Sessions**  
**RT5**

Time	Title	Speaker
09:00 - 09:30	Structure and dynamics of gas-phase biomolecules	Sadia Bari (DESY)
09:30 - 10:00	Diffraction Imaging of Macromolecules using Disordered Crystals	Kartik Ayyer (DESY)
10:00 - 10:30	Neutron scattering to study the structure and dynamics of macromolecules	Margarita Krutyeva (FZJ):
10:30 - 11:00	Coffee break	
11:00 - 11:30	Higher-order correlations and the glass transition of complex liquids	Felix Lehmkuehler (DESY):
11:30 - 12:00	Structure and Dynamics of Membranes at Solid Interfaces	Henrich Frielinghaus (FZJ):
12:00 – 12:30	Recent developments on polymer etched ion-track membranes for sensor applications	Maria Eugenia Toimil-Molares (GSI)
12:30 - 13:00	N.N.	N.N.
13:00	Lunch	
14:00	Research Field Matter / PoF IV	Helmut Dosch
14:45	Poster Session	
17:00 - 17:30	Restructuring of load bearing structures in natural organisms	Florian Wieland (HZG)
17:30 - 18:00	X-ray imaging for developmental biology	Venera Weinhardt (KIT)
18:00 - 18:30	Fast synchrotron imaging of insects	Thomas van de Kamp (KIT):
19:00	Dinner and Poster Session	

**MML Workshop at DESY**  
**Poster list, Poster session 15.12. 2016**  
(CFEL Foyer, Bldg. 99)

ID	Title	Primary Authors	RT
1	The quantum vacuum as a dispersive, nonlinear optical material	Dr. HARTIN, Anthony	1
2	Ground state potential energy surfaces around selected atoms from resonant inelastic x-ray scattering	PIETZSCH, Annette	1
3	Electronic, Magnetic, and Vibrational properties of Iridates studied via Nuclear Resonant Scattering	Mr. ALEXEEV, Pavel	1
4	Imaging molecular electron dynamics with time- and angle-resolved photoelectron spectroscopy	Dr. GORELOVA, Daria	1
5	Thermalization of hot XUV-generated electrons in diamond and LiF	Dr. LIPP, Vladimir	1
6	Efficient multi-cycle terahertz generation in periodically poled crystals by optimized pulse formats	Dr. BARRE, Damian	1
7	PRIOR - a protom microscope for FAIR	Dr. BLAZEVIC, Abel	1
8	Charge transfer dynamics in halomethane molecules ionized by intense femtosecond X-ray pulses	BOLL, Rebecca	1
9	HILITE - A Penning trap to study interactions of ions with intense photon fields	Mr. RINGLEB, Stefan	1
10	Ultra-fast solid-to-solid phase transition in diamond	Dr. TOLEIKIS, Sven	1
11	High precision laser spectroscopy of highly charged ions: Resonant excitation of Li-like Kr33+ at 136 eV and perspectives for hyperfine structure studies at highest Z with FLASH	Dr. BRENNER, Günter	1
12	Thermalization of X-ray-generated electron cascades in diamond and LiF	Dr. LIPP, Vladimir	1
13	X-ray induced dynamics in matter: from finite towards macroscopic systems	Dr. JUREK, Zoltan	1
14	Relativistic calculations of the non-resonant two-photon K-shell ionization of neutral atoms	Mr. HOFBRUCKER, Jiri	1
15	Inner shell excitation of Mn with short intense x-ray pulses	Dr. KLUMPP, Stephan/TIEDTKE, Kai (DESY)	1
16	Influence of the coherence of FEL radiation on the multiphoton ionization of highly correlated quantum systems	Dr. TIEDTKE, Kai	1
17	Nuclear spin effects in water and ammonia	Dr. YACHMENEV, Andrey	1
18	Energy loss of light ions at the stopping-power maximum in a laser-generated plasma	V. Bagnoud	1
19	Dynamics of the relativistic interaction of high power laser pulses with sub-micrometer thick target foils	F. Wagner	1
20	Development of a FROG for time-resolved characterization of relativistic laser-plasma interactions	J. Hornung	1
21	Phase-matching accelerators for efficient acceleration	Francois Lemery	1

22	Terahertz Radiation Driven Dynamics of Magnetic Domain Structures Probed by Free-Electron Laser Light	Dr. MUELLER, Leonard	2
23	Study of Mn <sub>1.9</sub> Co <sub>0.1</sub> Sb	Mr. CHIKOVANI, Mamuka	2
24	Probing multi-functional Oxides with scattering techniques	Prof. ANGST, Manuel	2
25	Studies on Yb and Sm based pyrochlores	PECANHA-ANTONIO, Viviane	2
26	First-order magnetization process as a tool of magnetic-anisotropy determination: the case of U <sub>3</sub> Cu <sub>4</sub> Ge <sub>4</sub>	Dr. GORBUNOV, D.i.	2
27	PM2 - A new soft x-ray beamline for magnetism	Dr. RYLL, Hanjo	2
28	Evidence for possible quantum spin-ice behaviour in Pr <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> as seen by inelastic neutron scattering.	Mr. SAMARTZIS, Alexandros	2
29	Self-assembly of periodic nanostructure arrays based on ion-induced spontaneous surface nanopatterning	ERB, Denise	2
30	Tuning spin and charge order in geometrically frustrated rare earth ferrites	HAMMOUDA, Sabreen	2
31	Thermal and thermoelectric high-magnetic-field study of the multiband superconductor FeSe	Dr. ARSENIJEVIC, Stevan	2
32	Spin-lattice effects in high magnetic fields	ZHERLITSYN, S.	2
33	Coupled charge density wave and magnetism in TbTe <sub>3</sub>	Dr. CHILLAL, Shravani	2
34	Highly ordered 3D nanoparticle superlattices investigated by microresonator ferromagnetic resonance	Dr. JOSTEN, Elisabeth	2
35	Evolution of antiferromagnetic domains in the all-in-allout ordered pyrochlore Nd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub>	Mr. OPPERDEN, Lars	2
36	Pump-Probe Holographic Imaging of Nanoscale Magnetic Domains	Dr. PHILIPPI-KOBS, André	2
37	Curved Magnetic Nanomembranes	Dr. MAKAROV, Denys	2
38	<sup>77</sup> Se NMR on single crystalline FeSe	Mr. MOLATTA, Sebastian	2
39	Proton Disorder in D <sub>2</sub> O - Ice: A Neutron Diffraction Study	Dr. SIEMENSMEYER, Konrad	2
40	X-ray quantum optics in thin-film nanostructures	HABER, Johann	2
41	Ion irradiation induced cobalt/cobaltoxide heterostructures: from materials to devices	Dr. YILDIRIM, Oguz	2
42	Lattice dynamics in ultrathin Ge/Fe <sub>3</sub> Si/GaAs heterostructures	Mr. KALT, Jochen	2
43	Direct measurements of the magnetocaloric effect in pulsed magnetic fields	Dr. SALAZAR MEJIA, Catalina	2
44	Requirements for stoichiometric SrCoO <sub>3-δ</sub> thin films	Mr. SCHÖFFMANN, Patrick	2
45	Asymmetric Thermal Lineshape Broadening in the Dimerised Antiferromagnet BaCu <sub>2</sub> V <sub>2</sub> O <sub>8</sub>	Mrs. KLYUSHINA, Ekaterina	2
46	Magnetic Structure of Atomically Exchange Biased Dy <sub>20</sub> Co <sub>80</sub> Film	Ms. HOFBAUER, Inken	2
47	Topological quantum phase transition from weak to strong topological insulator	MANDAL, P.S. / RADER, Oliver	2
48	Controlling the Dzyaloshinskii-Moriya interaction to alter the chiral link between structure and magnetism	SIEGFRIED, Sven-arne	2

49	Chirality induced exchange bias effect in DyCo/FeNi bilayers	LOTT, Dieter	2
50	Neutron Imaging of Hydrogen Storage Tanks	Dr. PRANZAS, P. Klaus	3
51	In-situ Scattering Experiments on the Structural and Morphological Changes of Metal Phosphides as Anode Materials in Lithium-Ion Batteries	Dr. FRIELINGHAUS, Henrich	3
52	Soft x-ray spectroscopy on Photosystem II and prototypical metal complexes	Mr. KUBIN, Markus	3
53	Spin structure in the ferroelectric phase of multiferroic Y-type hexaferrite Ba(2-x)SrxZn2Fe12O22	Mr. THAKURIA, Pankaj	3
54	2-Mercaptopyridine on Excited State Potential Energy Surfaces	ECKERT Sebastian	3
55	Microstructure development and mechanical strength of transient liquid phase bonded gamma-TiAl alloy joints	HAUSCHILDT, Katja	3
56	Effect of Base Metal Texture on the Microstructure, Tensile Properties and Residual Stresses of Laser-Welded Titanium Joints	Dr. MAAWAD, Emad	3
57	Microstructure of gas atomized TiAl powders	LAIPPLE, Daniel	3
58	Tailored thermal conductivity in thin film multilayers	Dr. PLECH, Anton	3
59	Oxidation behaviour of arc evaporated (Ti,Cr,Al)N coatings studied by SR-XRPD	Mr. OSTACH, Daniel	3
60	In-situ tensile texture study of a new high plasticity Mg-RE alloy	Dr. GAN, Weimin	3
61	Vicinal ZnO(10-14): surface structure and stability	Dr. GRÅNÄS, Elin	3
62	Elucidation of LBG polymer film orientation and structure by NEXAFS and calculation by DFT	Dr. BATCHELOR, David	3
63	HESAXS at HEMS	Mr. GAYER, Sören	3
64	Inelastic neutron scattering on the magnetocaloric compound MnFe4Si3	Mr. BINISKOS, Nikolaos/ Dr. NEMKOVSKIY, Kirill	3
65	Unravelling the mechanism of the magnetocaloric effect in Mn5Si3	Dr. SCHMALZL, Karin	3
66	Three-dimensional networks of interconnected ZnO and Cu2O nanowires fabricated by ion-track technology	MOVSESYAN, Liana	3
67	Sample environments for x-ray tomography at PETRA III beamline P05.	Dr. WILDE, Fabian	3
68	Hard X-ray Microscopy Station for Material Research at the Institute for Photon Science and Synchrotron Radiation, KIT	Dr. SERGEY, Gasilov	3
69	In situ materials characterisation with SRμCT	Dr. HAMMEL, Jörg	3
70	Study of 3D strain and damage interactions in thin-sheet Al alloy materials by synchrotron laminography and digital volume correlation	Dr. HELFEN, Lukas	3
71	Indium Sulfide Buffer Layers for Cu(In,Ga)(S,Se)2 Thin-Film Solar Cells - A Study Using Soft X-Ray and Electron Spectroscopy	Dr. HAUSCHILD, Dirk	3
72	In-situ XAS on Li-Ion batteries during electrochemical cycling	Dr. MANGOLD, Stefan	3
73	Ultrafast dynamics in transition metal dichalcogenides	Dr. SORGENFREI, Florian	3



74	High resolution x-ray focusing with multilayer Laue lenses	Dr. MORGAN, Andrew	4
75	Surface structure of Fe <sub>3</sub> O <sub>4</sub> under varying conditions studied by surface x-ray diffraction	Mr. ARNDT, Björn	4
76	Time-resolved in-situ X-ray investigations during growth of In <sub>x</sub> Ga <sub>1-x</sub> As core-shell nanowire structures.	Dr. FEIGL, Ludwig	4
77	Lattice dynamics of EuO: an evidence for giant spin-phonon coupling	Mr. PRADIP, R	4
78	Fabrication, Structure and Magnetic Behavior of Large Three-Dimensional Nanoparticle Supercrystals	Mr. SMIK, Michael	4
79	Custom-Made Magneto-Resistive Multilayer Devices	Dr. SCHLAGE, Kai	4
80	Heterostructures of perovskite thin films	Dr. SCHRÖDER, Sonja	4
81	Application of Ion Beams to Fabricate and Tune Properties of Dilute Ferromagnetic Semiconductors	Dr. ZHOU, Shengqiang	4
82	In-situ studies of pure metal nanoparticle synthesis by laser ablation	Dr. PLECH, Anton	4
83	Nitrogen doping in niobium (100) single-crystal	Mr. DALLA LANA SEMIONE, Guilherme	4
84	In situ GISAXS analysis of spray deposited biopolymer/ inorganic nanoparticle composites	Dr. OHM, Wiebke	4
85	Nanotubes, Nanocones and Nanotube Networks Fabricated by Ion-Track Technology and ALD of TiO <sub>2</sub> , SiO <sub>2</sub> , and Al <sub>2</sub> O <sub>3</sub>	CARRILLO SOLANO, Mercedes Alicia	4
86	High efficiency gratings based on asymmetric-cut multilayers	Dr. PRASCIOLU, Mauro	4
87	Observation of sagittal diffraction of x-rays by surface acoustic waves in Bragg geometry.	Mr. VADILONGA, Simone	4
88	Single bunch extraction by SAW driven bunch chopper	Mr. VADILONGA, Simone	4
89	Bragg coherent x-ray diffractive imaging of a single nanowire	Mr. DZHIGAEV, Dmitry	4
90	Probing dynamics in colloidal crystals with pump-probe experiments at LCLS	Ms. MUKHARAMOVA, Nastasia	4
91	Angular correlations between atomic lattice and superlattice of PbS nanocrystals assembled with directional linking	Mr. ZALUZHNYI, Ivan	4
92	The twofold nature of Coulomb scattering in graphene	Mr. KÖNIG-OTTO, Jacob C.	4
93	Metal Nanoparticles on Graphene	Mr. CREUTZBURG, Marcus	4
94	Radial growth of self-catalysed GaAs nanowires probed by time-resolved in-situ high-resolution X-ray diffraction	Mr. SCHROTH, Philipp	4
95	In-situ time-resolved XRD and RHEED study of the polytypism in GaAs nanowires	Mr. JAKOB, Julian	4
96	Silicon Nanowires with NiSi <sub>2</sub> Contacts - Towards Reconfigurable Devices	Mr. FUCHS, Florian	4
97	Defect-free accommodation of strain in highly mismatched GaAs/In <sub>x</sub> Ga <sub>1-x</sub> As core/shell nanowires	Mrs. BALAGHI, Leila	4
98	Constructing nanoelectronic circuits by top-down and bottom-up strategies	Mr. KILIBARDA, Filip	4

99	Study of influence of the applied voltage bias on the strain field in a single GaN nanowire	Dr. LAZAREV, Sergey	4
100	Interaction of Highly Charged Ions with Surfaces, Membranes and 2D Materials	Dr. FACSKO, Stefan	4
101	Coherent diffraction nanocatalysis	Dr. ABUÍN, Manuel	4
102	Achievements on ex-situ nano-metrology at the BESSY-II-Optics Lab of the Helmholtz Zentrum Berlin	SIEWERT, Frank	4
103	Comprehensive in situ processing and characterization of nanocomposite materials	Dr. KRAUSE, Matthias	4
104	In situ GISAXS investigation of Al growth on a diblock copolymer substrate	Dr. BEYERSDORFF, Björn	4
105	VEKMAG - a vector magnet for BESSY II	Dr. RADU, Florin	4
106	Ultra-doped Ge for optoelectronics: new perspectives of an old material	Dr. PRUCNAL, Slawomir	4
107	Exploring the Electronic Structure and Chemical Homogeneity of Individual Bi <sub>2</sub> Te <sub>3</sub> Nanowires by Nano-Angle-Resolved Photoemission Spectroscopy	Dr. TOIMIL-MOLARES, Maria Eugenia	4
108	Understanding the local structure of supercooled water via coherent x-ray scattering on liquid jets.	Dr. JAIN, Avni	5
109	Nanoscale rheology of phospholipid membranes	Dr. JAKSCH, Sebastian	5
110	Structure investigations of magneto-elastomeric nanocomposites	Mrs. FRUHNER, Lisa	5
111	Slow internal protein dynamics in solution observed by Neutron Spin Echo Spectroscopy	Dr. BIEHL, Ralf	5
112	Re-association dynamics of supramolecular transient networks	GOLD, Barbara	5
113	Quantitative characterization of degradation processes in situ by means of a bioreactor coupled flow chamber under physiological conditions using time-lapse SR-CT	ZELLER-PLUMHOFF, Berit	5
114	Biofilm formation and bacterial stress response studied by X-ray microscopy	Dr. HEINE, Ruth	5
115	Structure and Dynamics of PEGylated proteins: Structure and dynamics of PEGylated phosphoglycerate kinase	Dr. CIEPLUCH, Karol	5
116	Propagation based X-ray phase contrast and 4D in vivo imaging of development in <i>Xenopus laevis</i>	Mr. TROST, Fabian	5
117	Water Window Ptychographic Imaging of Biological Samples	Mr. ROSE, Max	5
118	X-ray imaging application at the multi-contrast laboratory setup at IPS	Mr. ZUBER, Marcus/ ENGELHARDT, Sabine	5
119	Flow-induced alignment of spindle shaped particles using microjets	Mrs. VALERIO, Joana	5
120	Polythiophene Based Block Copolymers for Neutron Scattering	Dr. RABA, Andreas	5
121	Investigation of Large Biopolymer Assemblies using Synchrotron X-ray Radiation	Ms. LORENZ, Charlotte	5
122	MD Simulations of Star Polymers - a look at Branch Point Motion to Investigate Dynamic Tube Dilution and the Role of Functionality	Mr. HOLLER, Stefan	5

123	CODE-VITA	Dr. HOFMANN, Ralf	5
124	3D scaffolds for cell culturing by means of phase contrast X-ray computed tomography	Dr. CECILIA, Angelica	5
125	Time resolved measurement of fluorescence kinetics from Adenine excited by soft X-rays	Dr. REDLIN, Harald	5
126	Neutron scattering investigation of the effect of active principles on phospholipid-based membranes.	Mr. MANUCHAR, Gvaramia	5
127	Structural organization of the ultra-hard magnetic biominerals in chiton radula teeth	Dr. WU, Baohu	5
128	Combining the strengths of Neutrons and Molecular dynamics for the study of bio-membranes	KOUTSIOUMPAS, Alexandros	5
129	Time-resolved Pulsed X-rays	Simone Techert	5
130	Time-resolved crystallography of enzymes and photoactive proteins	Kanupriya Pande	5
131	Single fibre diffraction	Andrew Morgan	5
132	Software for serial crystallography	Anton Barty	5
133	Sample delivery systems for crystallography using pulsed sources	Dominik Oberthuer	5
134	Getting more from protein crystallography	Oleksandr Yefanov	5
135	Simultaneous x-ray fluorescence imaging and ptychography of biological specimens	Karolina Stachnik	5
136	Real time analysis for serial diffraction experiments at high data rate	Valerio Mariani	5
137	Perfectly orientated mixed dimensional lead bromide perovskite thin film with low ASE threshold	Rui Wang	5
138	Internal dynamics of denatured Bovine Serum Albumin protein investigated by Inelastic Neutron Scattering	Felix Ameseder	5
139	The new fragment-screening beamline BL14.2 at the HZB	Thomas Hauss	5
140	Investigation of lipid layers under pressure and shear as model system for synovial joints.	Florian Wieland	5
141	Life Science at ANKA	Thomas van de Kamp/Venera Weinhardt	5
142	The High Brilliance Neutron Source Project	Dr. ZAKALEK, Paul	
143	Grating-Based Phase-Contrast Computed Tomography at PETRA III	Mr. HIPPE, Alexander	
144	Nanotomography at the P05 beamline	Dr. GREVING, Imke	