

Plenary Talks

Name	Affiliation	Title	
Ralph	Aßmann	Deutsches Elektronen-Synchrotron	The ATHENA Project
Anton	Barty	Deutsches Elektronen-Synchrotron	Megahertz serial crystallography
Michael	Bussmann	Helmholtz-Zentrum Dresden-Rossendorf	Data Management and Analysis
Robert	Feidenhans'l	European XFEL	XFEL: Status Report and First Experiments
Artem	Feoktystov	Forschungszentrum Jülich	Magnetic Nanoparticles: Functionality through a combination of Quantum Materials with Soft Matter
Claudia	Fournier	GSI Helmholtzzentrum für Schwerionenforschung	New at MML: Particle Therapy and Space Radiation Biophysics
Sergey	Kovalev	Helmholtz-Zentrum Dresden-Rossendorf	Extremely efficient nonlinear Terahertz light control in Dirac Materials
Roland	Sauerbrey	Helmholtz-Zentrum Dresden-Rossendorf	Welcome
Frank	Stefani	Helmholtz-Zentrum Dresden-Rossendorf	New at MML: Astrophysical Magnetohydrodynamics
Andreas	Stierle	Deutsches Elektronen-Synchrotron	Strategy of Materials Research at Helmholtz
Thomas	Stöhlker	Helmholtz-Institut Jena, GSI Helmholtzzentrum für Schwerionenforschung	MML: Introduction and New Developments
Marc	Weber	Karlsruher Institut für Technologie	Distributed Detector Laboratory

Research Topic 1: Session Talks

Name		Affiliation	Title
Vincent	Bagnoud	GSI Helmholtzzentrum für Schwerionenforschung	Evidence of relativistic transparency in laser-plasma interactions
Daniel	Bemmerer	Helmholtz-Zentrum Dresden-Rossendorf	Neon and sodium as tracers of the hot-bottom burning process in asymptotic giant branch stars
Abel	Blazevic	GSI Helmholtzzentrum für Schwerionenforschung	Energy loss measurements of light ions at the maximum of the stopping power help discriminate between energy loss
Elena	Bykova	Deutsches Elektronen-Synchrotron	Metastable silica high pressure polymorphs as structural proxies of deep Earth silicate melts
Thomas	Kluge	Helmholtz-Zentrum Dresden-Rossendorf	Observation of Ultrafast Solid-Density Plasma Dynamics Using Femtosecond X-Ray Pulses from a Free-Electron Laser
Dominik	Kraus	Helmholtz-Zentrum Dresden-Rossendorf	Exploring hydrocarbon chemistry at planetary interior conditions
Tobias	Lau	Helmholtz-Zentrum Berlin	Molecular iron oxides: iron in the unusual +7 oxidation state
Kai Sven	Schulze	Helmholtz-Institut Jena, GSI Helmholtzzentrum für Schwerionenforschung	High-purity x-ray polarimetry for precision tests of fundamental physics
Sang-Kil	Son	Center for Free-Electron Laser Science, Deutsches Elektronen-Synchrotron	Femtosecond response of atoms and molecules to ultra-intense hard x-rays
Rodolfo	Sánchez	GSI Helmholtzzentrum für Schwerionenforschung	Hyperfine Puzzle
Sven	Toleikis	Deutsches Elektronen-Synchrotron	Phase transition lowering in dynamically compressed silicon
Andrea	Trabattoni	Center for Free-Electron Laser Science, Deutsches Elektronen-Synchrotron	Double Blind Holography of Attosecond Pulses
Vinicius	Vaz Da Cruz	Helmholtz-Zentrum Berlin	A study of the water molecule using frequency control over nuclear dynamics in resonant X-ray scattering
Philipp	Wustelt	Helmholtz-Institut Jena, GSI Helmholtzzentrum für Schwerionenforschung	Heteronuclear Limit of Strong-Field Ionization: Fragmentation of HeH ⁺ by Intense Ultrashort Laser Pulses
Andrey	Yachmenev	Center for Free-Electron Laser Science, Deutsches Elektronen-Synchrotron	Creating and testing chirality, novel concepts from highly controlled molecules
Dongfang	Zhang	Deutsches Elektronen-Synchrotron	Segmented terahertz electron accelerator and manipulator (STEAM)

Research Topic 2: Session Talks

Name		Affiliation	Title
Anton	Davydok	Helmholtz-Zentrum Geesthacht	X-ray nanodiffraction for in-situ mechanical studies
Dirk	Hauschild	Karlsruher Institut für Technologie	Studying Surfaces and Interfaces in Cu(In,Ga)(S,Se) ₂ -based Thin-Film Solar Cells using Electron and Soft X-ray Spectroscopy
Katja	Hauschildt	Helmholtz-Zentrum Geesthacht	In situ high-energy X-ray diffraction analysis of a repair process for γ -TiAl alloys
Toni	Helm	Helmholtz-Zentrum Dresden-Rossendorf	Focused Ion beam assisted micropatterning for experiments under extreme conditions
Moritz	Hoesch	Deutsches Elektronen-Synchrotron	Disorder Quenching of the Charge Density Wave in ZrTe ₃
Olaf	Holderer	Forschungszentrum Jülich	Electrochemical energy converters inspected with neutron scattering techniques
Merve Pinar	Kabukcuoglu	Karlsruher Institut für Technologie	Laminography - Dynamics of dislocation networks in damaged wafers
Attila	Kakay	Helmholtz-Zentrum Dresden-Rossendorf	Magnetism in curved geometries
Sergey	Lazarev	Deutsches Elektronen-Synchrotron	Structural Changes in a Single GaN Nanowire under Applied Voltage Bias
Heshmat	Noei	Deutsches Elektronen-Synchrotron	Monitoring the Interaction of CO with Graphene Supported Metal Clusters by Vibrational Spectroscopy and Density Functional Theory Calculations
Viviane	Pecanha Antonio	Forschungszentrum Jülich	Exotic ground states and excitations in frustrated pyrochlore
Karel	Prokes	Helmholtz-Zentrum Berlin	Scientific opportunities with HFM-EXED: past, present and future
Sebastian	Rohlf	Christian-Albrechts-Universität zu Kiel	Light-Induced Spin Crossover in an Fe(II) Low-Spin Complex Enabled by Surface Adsorption
Eugenia	Toimil-Molares	GSI Helmholtzzentrum für Schwerionenforschung	Tailored bio-inspired nanochannels
Michael	Wagner	GSI Helmholtzzentrum für Schwerionenforschung	Bi and Sb Nanowire Assemblies for Thermoelectric Applications
Mao	Wang	Helmholtz-Zentrum Dresden-Rossendorf	Ion beams for hyperdoping Si: From Material Preparation to Atomic Scale Understanding

Research Topic 3: Session Talks

Name	Affiliation	Title	
Sadia	Bari	Deutsches Elektronen-Synchrotron	Soft X-ray Spectroscopy as a Probe for Gas-Phase Protein Structure
Anja	Burkhardt	Deutsches Elektronen-Synchrotron	New opportunities in macromolecular crystallography
Angelica	Cecilia	Karlsruher Institut für Technologie	Scaffolds for Tissue Engineering and 3D Cell Culturing
Monika Maria	Dubiak-Szepietowska	GSI Helmholtzzentrum für Schwerionenforschung	Live time imaging of DNA repair proteins after heavy ions irradiation
Sabine	Engelhardt	Karlsruher Institut für Technologie	Small Animal 3D X-ray Imaging for Morphological, Genetic and Embryonic Studies
Alexey	Ershov	Karlsruher Institut für Technologie	In vivo 4D X-ray Imaging for Developmental Biology
Silja	Flenner	Helmholtz-Zentrum Geesthacht	Characterization of the structure-function relationship in spider attachment hairs using high resolution X-ray imaging
Lara	Frenzel	Deutsches Elektronen-Synchrotron	Anomalous Dynamics of Concentrated Silica-PNIPAm Nanogels.
Alexander	Helm	GSI Helmholtzzentrum für Schwerionenforschung	Radiotherapy in combination with small molecules to harness an immune response in cancer therapy
Felix	Lehmkuhler	Deutsches Elektronen-Synchrotron	Dynamics of liquid water and amorphous ice using X-ray correlation spectroscopy
James	McNally	Helmholtz-Zentrum Berlin	New insights into nanoparticle mediated drug delivery as revealed by cryo soft X-ray tomography
Christoph	Schuy	GSI Helmholtzzentrum für Schwerionenforschung	GCR simulation @ GSI/FAIR
Thomas	Van De Kamp	Karlsruher Institut für Technologie	High-throughput 3D Digitization of Insect Morphology
Pablo	Villanueva-Perez	Center for Free-Electron Laser Science, Deutsches Elektronen-Synchrotron	Scanning Compton X-ray Microscopy
Markus	Wahl	Helmholtz-Zentrum Berlin	Molecular probes for RNAs and RNA-protein complexes
Manfred	Weiss	Helmholtz-Zentrum Berlin	Facilities for Macromolecular Crystallography at the HZB