

Session Program

10 October 2025

20 Years of MIN Faculty - Symposium
Poster Presentation - DESY Foyer (Building 5)

Friday 10 October

12:00

Poster Presentation - DESY Foyer (Building 5): Poster Session 1

Session |

Location: Science City Hamburg Bahrenfeld Plenary Sessions: DESY Auditorium (Building 5) Life Science: Centre for Structural Systems Biology (CSSB), Building 15 Materials of the Future: Center for Free-Electron Laser Science (CFEL), Building 99 Quantum Science and Technologies: Zentrum für optische Quantentechnologie (ZQT), Building 90

12:00-12:30

Bacteria-Tumor Spheroid Co-Culture Model Labeled with Multi-Metal Nanoparticles and Its X-ray Fluorescence Imaging Study

Speaker

Shihao Zhou

12:00-12:30

Synthesis and Self-Assembly of Titania Nanoplates and Their Encapsulation within a Polystyrene Shell via Photocatalytic Surface-Initiated Polymerization

Speaker

Jana Struck

12:00-12:30

CMT-aaRS variants cause translational defect alleviated by cognate tRNA enhancement

Speaker

Sven Hürländer

12:00-12:30

****Metal Nanoparticle-Based Strategy for Enhanced Contrast in XRF Imaging****

Speaker

Wenbo Wang

12:00-12:30

Establishment of a Bioinformatic Pipeline to Characterize the Phase Separation of Proteins in Plant Cells

Speaker

Magdalena Weingartner

12:00-12:30

Towards the stabilization of the FAPbI3 based active layer

Speaker

Thorben Stoebke

12:00-12:30

Introduction of the research group "Chemometrics of complex material systems"

Speaker

Stephan Seifert

12:00-12:30

Category-theoretic properties of Haskell monads

Speaker

Marie Feddersen

12:00-12:30

Developing Advanced Nanomedicines

Speakers

Neus Feliu Torres, Pascal Nakielski

12:00-12:30 Going towards green Chemistry: Iron catalysed Suzuki cross coupling**Speaker**

Constanze von Meyenn

12:00-12:30

Photocorrosion and protection of CuBi₂O₄ electrodes monitored by operando surface-sensitive x-ray scattering and impedance spectroscopy**Speaker**

Francesco Caddeo

12:00-12:30

Molecular Fingerprinting - Genomics, Proteomics and Metabolomics-based Artefact Profiling**Speaker**

Dr Marina Creydt

12:30

Poster Presentation - DESY Foyer (Building 5): Poster Session 2**Session** |**Location:** Science City Hamburg Bahrenfeld Plenary Sessions: DESY Auditorium (Building 5) Life Science: Centre for Structural Systems Biology (CSSB), Building 15 Materials of the Future: Center for Free-Electron Laser Science (CFEL), Building 99 Quantum Science and Technologies: Zentrum für optische Quantentechnologie (ZOQ), Building 90

12:30-13:00

Semiconductor Nanoparticle-based Gels as Photoactivated Gas Sensors**Speaker**

Jan Niklas Beyer

12:30-13:00

Unraveling the mechanism of iron sulfide nanosheet formation: insights from in situ X-ray diffraction and photon-in photon-out spectroscopic studies**Speaker**

Cecilia Zito

12:30-13:00

Colloidal Synthesis of Ultra-Large InAs Quantum Dots**Speaker**

Ekaterina Salikhova

12:30-13:00

Photothermal Activation of Gold Nanoparticles Star-shaped Induces Calcium Release in T-lymphocytes**Speaker**

Maya Luongo

12:30-13:00

Atomic Layer Deposition of Materials at the MIN Faculty: From History to Prospects**Speaker**

Robert Zierold

12:30-13:00

Magnetic resonance imaging of slow flow in plants.

Speaker
Noah Knorr

12:30-13:00

ηF (ETA factor) is involved in translation pace regulation in kinetoplastids

Speaker
Dr Mayara Lucia Del Cistia

12:30-13:00

Second-order superintegrable Hamiltonian systems via conformal and information geometry

Speaker
Dr Andreas Vollmer

12:30-13:00

Synthesis of Size and Surface Dependent Gold Nanoparticles for Future Bioaccumulation Studies

Speaker
Magdalena Massar

12:30-13:00

Overview of research in the Biophotonik Group

Speakers
Florian Schulz, Neus Feliu Torres

12:30-13:00

Climate Change and Food - Effects of Increased CO₂ Concentrations and Drought Stress on the Metabolic Profile of Soybeans

Speaker
Dr Marina Creydt

12:30-13:00

Optimizing Protein Corona Recovery from AuNPs for MS Quantification

Speakers
Mr Jannis Jährling, Mr Noah Frantz

13:00

13:00

Poster Presentation - DESY Foyer (Building 5): Poster Session 3

Session |
Location: Science City Hamburg Bahrenfeld Plenary Sessions: DESY Auditorium (Building 5) Life Science: Centre for Structural Systems Biology (CSSB), Building 15 Materials of the Future: Center for Free-Electron Laser Science (CFEL), Building 99 Quantum Science and Technologies: Zentrum für optische Quantentechnologie (ZOQ), Building 90

13:00-13:30

CodSpotter

Speakers
Josephine Buntrock, Juliane Niewar, Kilian Huss

13:00-13:30

Whispers in the WAVES: Decoding Campus Vibrations with Distributed Acoustic Sensing

Speaker
Vincent Wodtke

13:00-13:30

Influence of Hydrophilicity on the Hydrovoltaic Power Generation from Carbon Nanoparticles

Speaker
Dr Sanjay Jatav

13:00-13:30 **Topology and Origin of Complex Nano-Scale Spin Textures**

Speaker
Arved Heilmann

13:00-13:30

X-Ray Fluorescence Microscopy based Cell Discrimination using Inorganic Nanoparticle Tag

Speaker
Maya Luongo

13:00-13:30 **Molecular Mechanisms of Long-Distance Signaling in Plants**

Speaker
Anton Reza

13:00-13:30

Photoactivated Titania Nanocrystal Chemiresistors for the Detection of VOCs

Speaker
Finn Dobschall

13:00-13:30

Improving the mechanical strength and photocatalytic activity of 3D-structured titania aerogels by ALD coating

Speaker
Malte Maximilian Schmidt

13:00-13:30

Determining the fate of engineered tRNAs in human cells by direct RNA sequencing

Speaker
Mr Daniel Koëster

13:00-13:30

Intra- and Post-Synthesis Optimization of thermochromic α -NiS Nanoparticles

Speaker
Ole Krüger

13:00-13:30

Translating the hygroscopic principles of explosively dehiscent fruits into bioinspired actuators

Speaker
Fabian Scheckenbach

13:30

13:30

Poster Presentation - DESY Foyer (Building 5): Poster Session 4

Session |

Location: Science City Hamburg Bahrenfeld Plenary Sessions: DESY Auditorium (Building 5) Life Science: Centre for Structural Systems Biology (CSSB), Building 15 Materials of the Future: Center for Free-Electron Laser Science (CFEL), Building 99 Quantum Science and Technologies: Zentrum für optische Quantentechnologie (ZOQ), Building 90

13:30-14:00

Cation-Site Disordered Cu3PdN Nanoparticles for Hydrogen Evolution Electrocatalysis

Speaker

Jagadesh Kopula Kesavan

13:30-14:00

Efficient workflow for demultiplexing and mapping of direct tRNA sequencing**Speaker**

Daniel Käflster

13:30-14:00

Aerogels made from Semiconductor Nanoparticles**Speaker**

Pia Thomsen

13:30-14:00

Implementing electric field-stimulated X-ray crystallography at EMBL P14 T-REXX using Hadamard time-resolved X-ray crystallography**Speaker**

Maggie Klureza

13:30-14:00

Quantum Radiometric Calibration**Speaker**

Leif Albers

13:30-14:00

Strategic Phosphorus Allocation Under Stress: Root-Mycorrhizal Traits Driving Nutrient Efficiency in Forests**Speaker**

Li Yan

13:30-14:00

Unravelling Protein Dynamics: Advancing Structural Biology with Time-Resolved Crystallography**Speaker**

Maria Spiliopoulou

13:30-14:00

Liposome-based SERS Sensor system for double readout of intracellular Iron concentrations and pH changes**Speaker**

Chengxu Wei

13:30-14:00

Green Synthesis of Complex Chemical Building Blocks: Light-Mediated Oxygenation of Phenols**Speaker**

Ben Bimberg

13:30-14:00

Modular Reactor for In Situ X-ray Scattering, Spectroscopy, and ATR-IR Studies of Solvothermal Nanoparticle Synthesis**Speakers**

Melike Gumus Akcaalan, Sani Harouna-Mayer, Tjark Leon Raphael Gröne

14:00