

## **Session Program**

**Sep 22 - 24, 2025**



## **Ionenstrahlworkshop 2025**

### **Talks**

GSI, KBW lecture hall  
Planckstr. 1 64291 Darmstadt / Germany

# Mon, September 22

1:45 PM

## Talks: Session 1

**Session** | **Location:** GSI, KBW lecture hall, Planckstr. 1 64291 Darmstadt / Germany | **Convener:** Maria Eugenia Toimil Molares

1:45 – 2:00 PM

### Welcome

#### Speaker

Maria Eugenia Toimil Molares

2:00 – 2:30 PM

### Ion beams for photonic integrated circuits

#### Speaker

Carsten Ronning

2:30 – 2:50 PM

### Spectroscopic Investigation of Swift Heavy Ion Induced Defects in Type Ib Diamond

#### Speaker

Pascal Simon

2:50 – 3:10 PM

### Acoustic Measurement of Heavy Ion Energy Deposition in Water at 4°C

#### Speaker

Anna-Katharina Schmidt

3:10 – 3:30 PM

### News from PT-DESY

#### Speaker

Rebecca Redlin

3:30 PM

4:00 PM

## Talks: Session 2

**Session** | **Location:** GSI, KBW lecture hall, Planckstr. 1 64291 Darmstadt / Germany | **Convener:** Judith Reindl

4:00 – 4:30 PM

### Capturing ultrafast electron heating from single-ion impact in solids

#### Speaker

Lars Breuer

4:30 – 4:50 PM

### Mechanical Stress Formation in Ge Films upon Ion Irradiation

#### Speaker

Karla Paz

4:50 PM

## Tue, September 23

9:00 AM

### Talks: Session 3

**Session** | **Location:** GSI, KBW lecture hall, Planckstr. 1 64291 Darmstadt / Germany | **Convener:** Ina Schubert

9:00 – 9:30 AM

#### **Bond-breaking efficiency of individual MeV-GeV ions in polymer thin films: Combining studies from XPS, FTIR, and AFM-IR**

**Speaker**

Raquel Thomaz

9:30 – 9:50 AM

#### **In-situ Raman Spectroscopy of Ion-Induced Defects in Graphene**

**Speaker**

Carolin Frank

9:50 – 10:10 AM

#### **Ambipolar Transport in Phosphorus Implanted WS<sub>2</sub> Monolayers**

**Speaker**

Yi Li

10:10 – 10:30 AM

#### **Photon Emission Induced by keV Ions Transmitted Through Single-Crystalline Si Membranes**

**Speaker**

Kevin Vomschee

10:30 AM

11:00 AM

### Talks: Session 4

**Session** | **Location:** GSI, KBW lecture hall, Planckstr. 1 64291 Darmstadt / Germany | **Convener:** Carsten Ronning

11:00 – 11:30 AM

#### **Utilizing beams of energetic ions for measurements of kinetics in materials on the atomic scale**

**Speaker**

Daniel Primetzhofer

11:30 – 11:50 AM

#### **Two-Temperature Modeling of Swift Heavy Ion Effects from First Principles**

**Speaker**

Aleksi Leino

11:50 AM – 12:10 PM

#### **High-Pressure Platform for Swift Heavy Ion Irradiations: Probing Structural Transformations in Extreme Radiation Environments**

**Speaker**

Ioannis Tzifas

12:10 – 12:40 PM

#### **HAMSTER – a new universal 1-MV AMS facility at HZDR with ion cooler and SIMS capabilities**

12:40 PM

**Speaker**

Anton Wallner

2:00 PM

**Talks: Session 5****Session** | **Location:** GSI, KBW lecture hall, Planckstr. 1 64291 Darmstadt / Germany | **Convener:** Stefan Facsko

2:00 – 2:30 PM

**The solid state Physics programme at ISOLDE-CERN****Speaker**

Juliana Schell

2:30 – 2:50 PM

**PACBIT — Third-Generation TDPAC Data Acquisition and Analysis****Speaker**

Björn Dörschel

2:50 – 3:20 PM

**Magnetoelectric Decoupling in Bismuth Ferrite****Speaker**

Doru Lupascu

3:20 PM

4:00 PM

**Talks: Session 6****Session** | **Location:** GSI, KBW lecture hall, Planckstr. 1 64291 Darmstadt / Germany | **Convener:** Doru Lupascu

4:00 – 4:30 PM

**Shaping the Future of Radiobiology: Precision Ion Beams and the German Research Landscape****Speaker**

Judith Reindl

4:30 – 4:50 PM

**Ion microbeam for biological heavy ion research****Speaker**

Nikolaos Mallousis

4:50 – 5:10 PM

**Construction of a proton minibeam beamline for preclinical experiments in small animals - Minibee Project****Speaker**

Aikaterini Rousseti

5:10 PM

# Wed, September 24

9:00 AM

## Talks: Session 7

**Session** | **Location:** GSI, KBW lecture hall, Planckstr. 1 64291 Darmstadt / Germany | **Convener:** Lars Breuer

9:00 – 9:20 AM

### Optimization of stimulated outgassing for particle accelerator vacuum components

**Speaker**

Leon Kirsch

9:20 – 9:40 AM

### Tracing Environmental Radionuclides with the HAMSTER

**Speaker**

Stella Winkler

9:40 – 10:00 AM

### Setting-up Super-SIMS at HAMSTER

**Speaker**

Georg Rugel

10:00 – 10:20 AM

### ASCII: Apparatus for Surface Physics and Interfaces at CERN's Ion Implantation Chamber

**Speaker**

Felix Jeschek

10:20 AM

11:00 AM

## Talks: Session 8

**Session** | **Location:** GSI, KBW lecture hall, Planckstr. 1 64291 Darmstadt / Germany | **Convener:** Juliana Schell

11:00 – 11:30 AM

### Cosmic dust and high energy ions. What? Why? How?

**Speaker**

Alexey Potapov

11:30 – 11:50 AM

### Highly site-selective fragmentation of peptides induced by swift heavy ions

**Speaker**

Aaron Herrmann

11:50 AM – 12:10 PM

### Closure

**Speaker**

Maria Eugenia Toimil Molares

12:10 PM