### **Session Program**

15-19 Sept 2025



### MEDSI2025 - 13th International Conference on Mechanical Engineering Design of Synchrotron Radiation Equipment and Instrumentation

### **Tuesday Poster Session**

The Loop Lund, Sweden

### **Tuesday 16 September**

freedom	lesign of an off-axis parabolic mirror holder with six degrees of
<b>Speaker</b> Alexander Reich	
MicroMAX be	am conditioning unit
<b>Speaker</b> Staffan Benedict	sson
Airbox housi applications	ng for Jungfrau hybrit pixel area detectors used for X-ray laser in vacuum
<b>Speaker</b> Mr Andreas Schn	idt
CXI end stati	on at Softimax beamline MAX IV
<b>Speaker</b> Niklas Johansson	
	A diffractometer for microfocus beam macromolecular bhy experiments at XAIRA beamline z
Compact mu at LCLS	ti-purpose imager for the Matter in Extreme Conditions end-statio
<b>Speaker</b> Nina Boiadjieva	
Microfocus t	ender X-ray beamline utilizing dipole radiation at BESSY II
<b>Speaker</b> Janin Lubeck	
High resolut	on beam defining slits for Korea-4GSR beamlines
<b>Speaker</b> Young Duck Yun	
Studies for a	novel generation of the beam profile measurements (beam wire the Large Hadron Collider (LHC)
scanner) for	

### Nano-tomo-ptychography 3D-imaging on the Swing Beamline

#### Speaker

Filipe Alves

#### Experimental station at MicroMAX

#### Speaker

Mirko Milas

#### The new microfocus station for the NOTOS beamline at the ALBA synchrotron

**Speaker** Antoni Garcia-Herreros

#### Design and commissioning of a dedicated multilayer monochromator for electron beam size measurements using the Heterodyne Near Field Speckles (HNFS) technique at the ALBA synchrotron

Speaker Jose Maria Alvarez

#### **CRISTALLINA-Q XFEL Diffractometers**

Speaker Mr Norman Huber

#### Creating a Multi-Capillary Furnace (MCF)

Speaker

Mark Morrow

#### Test beamline construction and device performance evaluation at PLS-II

Speaker

Sang Hun Kim

### Energy distribution of photoelectrons from the first mirror of a synchrotron radiation beamline

**Speaker** Ryoma Kataoka

#### Multilayer based soft-x-ray polarimeter at SOLARIS National Synchrotron Radiation Centre

Speaker Pawel Nowak

#### New HXS (Hard X-ray Scattering) beamline design at European XFEL

Speaker Nicole Kohlstrunk

### CoSAXS beamline at MAX IV: optical design and sample environment for advanced SAXS/WAXS applications

**Speaker** Matheus Da Silva

### In-line Sample viewer for sample alignment and visualization in SAXS/WAXS experiments at the CoSAXS Beamline at MAXIV Laboratory.

**Speaker** Jackson Luis Da Silva

#### Macromolecular crystallography at beamline P11

Speaker Alexander Grebentsov

## Versatile x-ray reflector extension setup for grazing-incidence experiments at SAXS Facilities for liquid surface study at Beamline P03/PETRA III

Speaker

Dr Andrei Chumakov

#### A new monochromator chamber design for XUV/ soft X-ray spectroscopy at FLASH

#### Speaker

Holger Weigelt

#### Controlling of a nano imaging test device

Speaker Patrik Wiljes

#### Technical developments of the microfocus endstation at Beamline P03/ PETRAIII

Speaker

Jan Rubeck

#### FL28: A new diagnostic beamline for ultra-short XUV FEL pulses at FLASH

Speaker Michael Walther

### Development of a white X-ray beam monitor for the undulator beamline at Korea-4GSR

Speaker

Mr Hyung-seok Choi

### Reconfiguration of the ASTRA beamline and its adaptation for Raman spectroscopy measurements

**Speaker** Marcin Brzyski

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## Mechanical design and implementation of a High Harmonic Generation source at the SXP instrument

**Speaker** Vahagn Vardanyan

### An overview of the time-resolved capabilities and sample setups modularity at CoSAXS

**Speaker** Roberto Appio

#### Integrated system design of fluorescence detector and beam position monitor

Speaker Dr Hok-Sum Fung

### A safe and X-ray transparent aluminium sample cell for high pressure and high temperature nano-diffraction imaging

**Speaker** Anne-Lise Buisson

#### Upgrade of crystal positioners for ESRF Double Crystal Monochromator

**Speaker** Ludovic Ducotté

#### SPring-8 BL12B2 Attenuator Design

Speaker

Ming-Ying Hsu

# Ultra-high-resolution monochromators for XFEL applications at LCLS-II-HE: a 4f Optical approach with channel-cut crystals

**Speaker** Hengzi Wang

#### Remote cryo valve adjuster - a new device to improve safety and reduce cost

**Speaker** Edwin Haas

### Thermal modelling, design and evaluation of a cryogenic cooling system for a beamline endstation

**Speaker** David Tillin

#### Automated high pressure water cell - HPWC

**Speaker** Arne Meyer

#### **XBPF** design and prototyping

Speaker Benjamin Moser

### A new beamline for Enhanced Liquid Interface Spectroscopy and Analysis (ELISA) at BESSY II

Speaker Dr Stefan Hendel

# FemtoMAX beamline instrumentation and femtosecond pump-probe time-resolved experiments at the MAX IV Laboratory

Speaker Byungnam Ahn

#### Rapid beamline diagnostics for upcoming BESSY II+ SoTeXS beamline

**Speaker** David Kraft

### An overview of the mechanical design of the quad crystal monochromator for the I20 XAS beamline.

**Speakers** Callum Tetrault, Mark Hooper

### Applying advanced manufacturing techniques to improve in-vacuum cooling within the SWIFT beamline.

Speaker Owen Harding

#### Hexi: The High-energy Electron Xtallography Instrument

**Speaker** Michela Semeraro

# Scanning and transfer of cryogenic samples in the BioNanoProbe-II instrument at the Advanced Photon Source

Speaker

Mr Benjamin Davis

#### Sample environment @ PETRA III for in-situ & operando x-ray experiments

#### Speaker

Jan Torben Röh

#### The extreme conditions catalytic cell for BL01 at ALBA

Speaker

Antonio Carballedo Costa

#### A new integrated x-ray diffractometer for advanced diffraction beamlines

Speaker

Mr Raphael Richaud

#### Engineering design of the CDI beamline endstation at NSLS-II

**Speaker** Yi Zhu

YI ZNU

#### Construction of a new beamline at PETRA III: P63 OperandoCat

**Speaker** Luis Felipe Barbosa

#### Optimizing SGM beamline performance: hexapod and spectroscopy enhancements

Speaker

Tor Pedersen

# Design and technical commissioning of the In Situ Nanoprobe endstation and instrument at the Advanced Photon Source

Speaker

Mr Benjamin Davis

#### Introduction of a new XRF microprobe at the Australian Synchrotron

Speaker

Mr Benjamin Pocock

#### A wavelength-dispersive spectrometer for resonant inelastic X-ray scattering

**Speaker** Jan Weser

#### Examples of 2025 upgrades and experiments at Eu.XFEL MID Instrument

**Speaker** Mr Gabriele Ansaldi

# High-precision alignment of an upgraded soft X-ray polarimeter at Diamond Light Source

Speaker Qingxin Meng

5

Speaker	
Antonio Carballedo (	Costa
atest progres	s on two new ALS-U beamlines for diffraction-limited performance
Speaker	
Maxime Bergeret	
	igh energy microscopy beamline at Korea-4GSR
Design of the h	igh energy microscopy beamline at Korea-4GSR
Design of the h Speaker Yongsung Park	
Design of the h Speaker Yongsung Park	nent setups: concept and experience from the SCS Beamline at
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Speaker

Chanan Euaruksakul

18:00