

Session Program

21-27 Sept 2026



NOBUGS 2026

Poster Flash Presentations

EuXFEL Lighthouse

Tuesday 22 September

17:00

Poster Flash Presentations: Flash Presentations for Poster Session I

Session | **Location:** EuXFEL Lighthouse

17:00-17:03

A report on an AI "Codecamp" for developing a graphical sequencer environment for instrument and beamline automation tasks

Speaker

Steffen Hauf

17:03-17:06

Integer Programming-Based Proposal Scheduling with Workflow Integration at SPring-8

Speaker

Takahiro Matsumoto

17:06-17:09

Experiment Control and Data Management with BLISS: Achievements and Future Challenges

Speaker

Jens Meyer

17:09-17:12

Silx: past, present and future.

Speaker

Henri Payno

17:12-17:15

dCache - sustainable software for scientific communities

Speakers

Lennart Sack, Marina Sahakyan, Tigran Mkrtchyan

17:15-17:18

NICOS, a multi-protocol experiment control system

Speaker

Hanno Perrey

17:18-17:21

Darfix: How to improve existing code?

Speaker

Maxence Ruyer

17:21-17:24

MIEZEPY: open-source software package for the MIEZE data reduction

Speaker

Dr Iryna Lypova

17:24-17:27

Automation at the SLS 2.0 Macromolecular crystallography (MX) Beamlines

Speaker

Jiaxin Duan

17:27-17:30

SOLARIS beamline interfaces

Speakers

Ms Liwia Zaborowska, Maciej Mleczko, Mr Mateusz Floras

17:30-17:33

Move Carefully and Fix Things: introducing the thorough, modular data corrections suite “MoDaCor”.**Speaker**

Brian Richard Pauw

17:33-17:36

Research and Progress on Imaging Data Compression for HEPS**Speaker**

Shiyuan Fu

17:36-17:39

PtychoDiffusion: A Physics-Guided Diffusion Posterior Sampling Framework for High-Fidelity Ptychographic Reconstruction**Speaker**

Jie Zhang

17:39-17:42

From Compression to Control: Adaptive Latent Capacity Estimation for Scientific Data**Speaker**

Siu-Lun Yeung

17:42-17:45

A Plug-and-Play Pipeline for Custom Instance Segmentation Benchmarking**Speaker**

Bhumika Mistry

17:45-17:48

Numerically Consistent Azimuthal Integration for 2D pixel detectors for orientated data**Speaker**

Stuart Ansell

17:48-17:51

Generalising Bluesky Scans - The Generic Scan**Speaker**

Andreas Moll

17:51-17:54

End-to-End Beamline Workflows with Prefect**Speaker**

Andreas Moll

17:54-17:57

Agentic AI Publication Curation and LLM-Based Experiment Concept Evaluation**Speaker**

Madeline Miller

17:57-18:00

From Development to Operation: Lessons Learned from BEC at SLS 2.0**Speaker**

Klaus Wakonig

20:00

18:00-18:03

Performance matters: An optimization project for Taurus.

Speaker

Oriol Vallcorba Valls

Wednesday 23 September

10:15

Poster Flash Presentations

Session | **Location:** EuXFEL Lighthouse

10:15-10:18 **Automating Alignment Workflows at European XFEL**

Speaker

Sarlota Birnsteinova

10:18-10:21

BACS 2.0: the modular Beamline Personnel Safety System at Elettra 2.0

Speaker

Michele Belletti

10:21-10:24 **Control of Operando Experiments with Bluesky**

Speaker

William Smith

10:24-10:27

An Intelligent Two-Stage Lossless Compression Method for Synchrotron Image Sequences

Speaker

Cheng Yu Liu

10:27-10:30 **CATACT beamline @ KARA: ROCK-IT project outcome**

Speaker

Andrey Sapronov

10:30-10:33

Daisy-BCDI, an agent-based high-performance-computing software for BCDI in HEPS

Speaker

LEI WANG

10:33-10:36

EasyScience: A Framework for Unified Neutron Scattering Data Analysis

Speaker

Andrew Sazonov

10:36-10:39 **ESS Detector Data Acquisition Architecture**

Speaker

Morten Jagd Christensen

10:39-10:42 **EWOKS workflow for round-robin XAS study at BESSY II**

Speaker

Sonal Ramesh Patel

10:42-10:45 **Modernizing legacy monoliths**

Speaker

Reece Boston

10:45-10:48

Compression-aware FPGA implementation of azimuthal integration for high-throughput photon science**Speaker**

Zdenek Matej

10:48-10:51

SciLog at PSI - experiences, new features and outlook**Speaker**

Mr Carlo Minotti

10:51-10:54

CrystalAI: Open Software for AI-Assisted Powder Diffraction Structure Solution**Speaker**

Shubhayu Das

10:54-10:57

A User-Centered Approach to Updating GUIs for DAPHNE4NFDI**Speaker**

Zeynep Isil Isik Dursun

10:57-11:00

Building Sustainable and Collaborative Software Development at SIRIUS**Speaker**

Ana Clara de Souza Oliveira

11:00-11:03

Decentralized DAQ Pipeline for Serial Micro-CT**Speaker**

Chandan Sarkar

11:03-11:06

Application of Machine Learning to Diffuse Scattering Data Analysis**Speaker**

Raymond Osborn

11:06-11:09

AMBCAT: A Digital Infrastructure for High-Resolution Amber Fossil Research**Speakers**

Frank Schlutzenzen, Jörg Hammel, Neele Rahmlow

11:09-11:12

Enabling Multi-stage NeXus-compliant Metadata Standardization with Assonant**Speaker**

Paulo Baraldi Mausbach

11:12-11:15

Tailored Abstract Translator (TAT)**Speaker**

Yoganandan Pandiyan

11:15-11:18

PhotonZip: A Unified Compression Software for Light Source Data**Speaker**

Wenjing Huang

11:18-11:21

Exploring Workflow Technologies for Beamline Control and Data Processing at SIRIUS

Speaker

Ana Clara de Souza Oliveira

13:00