

Session Program

26-30 Aug 2024

SRI2024
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***Mikrosymposium 3/3: Data, Automation and the
Use of AI***

Friday 30 August

11:00

Mikrosymposium 3/3: Data, Automation and the Use of AI: MS3/3

Session | **Location:** Saal B**11:00-11:20** **Data analysis using AI and HPC at CLS****Speaker**

Stuart Read

11:20-11:40**ChatGPT and EPICS: Pioneering LLM-Enhanced Control Systems for Synchrotron Beamlines****Speaker**

Martin Radtke

11:40-12:00**Rapid, Online Screening of Complex Phase Spaces Using Bayesian Optimization with Application to SAXS Measurements****Speaker**

Khaled Younes

12:00-12:15**Pydidas: An Integrated Tool for Diffraction Data Analysis****Speaker**

Malte Storm

12:15-12:30**High-Resolution Phase-Contrast Imaging for Large Samples at Synchrotron Sources with Time-Varying Beam Profiles****Speaker**

Dominik John

12:30-12:45**Imaging and Real-Time Data Processing at the Terabyte Scale****Speaker**

Goran Lovric

12:45-13:00**A 3D Graph Neural Network-Based Approach to 3D Structure Analysis of XAS****Speaker**

Haifeng Zhao

13:00