



Contribution ID: 514 Contribution code: TUPD056

Type: **Poster Presentation**

The Enhanced Liquid Interface Spectroscopy and Analysis (ELISA) beamline control system prototype

Tuesday 23 September 2025 16:00 (1h 30m)

The Enhanced Liquid Interface Spectroscopy and Analysis (ELISA) beamline is a new instrument at BESSY II focusing on a novel, integrated approach for the high-fidelity preparation and investigation of liquid interfaces using soft x-ray radiation and infrared radiation light generated simultaneously from the BESSY II light source.

[1] As ELISA is part of the BESSY II+ upgrade scheme [2] it will be the first soft x-ray beamline at BESSY II to use new hardware motion control standards and a novel BESSY II EPICS deployment system.

This contribution focuses on workflows and tools we have developed for beamline control at BESSY II. We demonstrate their application at the ELISA beamline and finish with an outlook on scaling usage across the full experimental hall.

Footnotes

[1] Vadilonga et al., doi:10.1080/08940886.2022.2082213

[2] Müller et al., doi:10.18429/JACoW-ICALEPCS2023-MO2AO04

Funding Agency

Author: BRENDIKE, Maxim (Helmholtz-Zentrum Berlin für Materialien und Energie)

Co-authors: PORZIO, Luca (Helmholtz-Zentrum Berlin für Materialien und Energie); BAJDEL, Marcel (Helmholtz-Zentrum Berlin für Materialien und Energie); VADILONGA, Simone (Helmholtz-Zentrum Berlin für Materialien und Energie); SMITH, William (Helmholtz-Zentrum Berlin für Materialien und Energie)

Presenter: BRENDIKE, Maxim (Helmholtz-Zentrum Berlin für Materialien und Energie)

Session Classification: TUPD Posters

Track Classification: MC03: Control System Sustainment and Management