



Contribution ID: 254 Contribution code: TUMR006

Type: Poster Presentation with Mini Oral

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

Tuesday 23 September 2025 15:15 (3 minutes)

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. As *ELISA is part of the BESSY II+ upgrade scheme** 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 paper will focus on workflows and tools we have developed for beamline control at BESSY II. We demonstrate their application at the ELISA beamline and will finish with an outlook on how we plan to scale usage around the full experimental hall.

Footnotes

[] VadiLonga et al., doi:10.1080/08940886.2022.2082213

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

Funding Agency

Manuscript formatting

LaTeX

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

Co-authors: PORZIO, Luca (Helmholtz-Zentrum Berlin für Materialien und Energie); SREELATHA DEVI, Parvathi (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: TUMR Mini-Orals (MC03, MC04, MC08)

Track Classification: MC03: Control System Sustainment and Management