



Contribution ID: 83 Contribution code: TUP06

Type: **Poster Presentation**

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

Tuesday 16 September 2025 17:00 (1 hour)

CoSAXS is a multipurpose SAXS instrument located at the 3 GeV ring of MAX IV Laboratory in Sweden. This instrument provides a versatile platform for conducting Small-Angle X-ray scattering (SAXS) experiments on a wide range of research fields. With an extensive pool of sample environments, CoSAXS enables the application of multiple techniques and complex experiments on solid and solution samples. To accommodate the high demand and facilitate the rapid exchange of sample setups, a standardized mounting system has been implemented and additive manufacturing techniques are utilized for fast and efficient prototyping and production of customized sample holders. Furthermore, CoSAXS is equipped with advanced sample environments, such as the setup for milliseconds Time-Resolved SAXS-WAXS experiments in solution (TR-XSS). Among other studies it has been used in non-reversible protein reactions after laser activation of caged compounds.

Footnotes

Funding Agency

Author: APPIO, Roberto (MAX IV Laboratory)

Co-authors: TERRY, Ann (MAX IV Laboratory); AHN, Byungnam (MAX IV Laboratory); DA SILVA, Jackson Luis (MAX IV Laboratory); DA SILVA, Vanessa (MAX IV Laboratory); PLIVELIC, Tomás (MAX IV Laboratory); HERRANZ TRILLO, Fatima (MAX IV Laboratory); MOTA-SANTIAGO, Pablo (Australian Nuclear Science and Technology Organisation)

Presenter: APPIO, Roberto (MAX IV Laboratory)

Session Classification: Tuesday Poster Session

Track Classification: BEAMLINES: Sample Environments