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Examples of 2025 upgrades and experiments at EuXFEL MID Instrument

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In this poster are given insights about some examples of 2025 Upgrades and Experimental Setups at EuXFEL MID Instrument. It is reported the latest design and implementation status of Eu. XFEL MID Multi-Purpose Chamber (MPC_2) Project. This represents a set of upgrades of MID's instrumentation currently being developed. It's an evolution of the current multi-purpose chamber, used at MID since the first experiments in 2019. The aim is to enable new types of scientific experiments to expand the current capabilities of MID. Another aim is to make operation of experiments easier with better access to the sample environment and possibilities to install new ancillary equipment. The MPC_2 Project includes MPC-2 VESSEL Upgrade (where we indicate here the current concept design status, simulation and its evolution through different scenarios: SUCCESSOR, SEGMENTED, DN320ISO-K) and MPC-2 INNER Upgrade (MPC-2_IU), which in turn consists of Breadboard Assembly, Laser In-coupling 2 Setup, 2-theta Goniometer, Diffractometer. Reported are also examples of recent dedicated EX-PERIMENTAL SETUPS developments at MID, continuing in the direction of simultaneous multi-detector-use.

Footnotes

Funding Agency

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