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Data Management Concept for Heinz Maier-Leibnitz Zentrum (MLZ)

The data management concept for MLZ will be presented in this poster contribution. Various services work together, from initial proposal submission to final publication. The instrument control software NICOS delivers the beamline data to additional services like the metadata catalog SciCat, Electronic Laboratory Notebook (ELN) services designed for use at MLZ, and additional analysis tools, e.g., JupyterHub. An important requirement for the data management concept is to allow easy integration of all (Lab) instruments, including those not operated by MLZ's control software NICOS. For this purpose, a message queuing system is used at MLZ, allowing loosely coupled data acquisition systems and follow-up services such as ingestion into the metadata catalog SciCat. It is mandatory to allow easy integration of all (Lab)instruments to work at MLZ, including those not operated by NICOS. This poster will also showcase further current activities at MLZ.

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