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MLZ-ELN as a technical solution for an electronic lab notebook

MLZ-ELN is now fully containerized and available as an easy-to-install instance running behind an nginx web server. It includes new features such as the Typesense search engine (<https://typesense.org/>), Centrifugo (<https://centrifugal.dev/>) as a powerful alternative to Python websockets, a newer Angular version (Angular v17) and SSO integration with Keycloak 25.

MLZ-ELN has been running 24/7 as a prototype at MLZ (<https://mlz-garching.de/>) since July 2024, connected to Virtual Panda and an X-ray residual stress diffractometer.

It is also integrated into the MLZ proposal system, with user authentication/authorization handled by the MLZ SSO service <https://idm.mlz-garching.de>.

Primary author: BAUDISCH, Josef (MLZ TUM)

Co-authors: PEDERSEN, Björn (MLZ, TU München, Garching); WANG, Wojan

Presenter: BAUDISCH, Josef (MLZ TUM)

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