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Parametrization of neutron instruments at MLZ

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Data obtained at a publicly funded research facility such as MLZ becomes available to other researchers after some period of time. The motivation for this policy is to make it possible to reuse data or verify published results. Given the huge variety of instruments, methods, and the extreme complexity of some of the experimental workflows, reuse of such data becomes absolutely impossible without proper and comprehensive documentation describing the available datasets. Each dataset must be attributed with a set of metadata needed for future analysis. Building such metadata schemas for each instrument and method is not possible without close collaboration with a competent and experienced instrument responsible scientist and user community. Here we demonstrate our attempts to assemble metadata sets describing data obtained by three fundamentally different neutron scattering instruments, such as triple-axis spectrometer, diffractometer and small-angle neutron scattering instrument. Despite significant differences in instrument design, measurement algorithms, and data structures, we are trying to unify the approach to constructing experiment metadata schemes.

Primary author: Dr TYMOSHENKO, Yuliia (Karlsruhe Institute of Technology)

Presenter: Dr TYMOSHENKO, Yuliia (Karlsruhe Institute of Technology)

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