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UC5: Spectroscopy

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Inelastic scattering is a fundamental technique for probing lattice dynamics and magnetic excitations, serving as a cornerstone in materials science and condensed matter research. While it has historically been linked to neutron scattering, recent innovations in modern synchrotron facilities have facilitated the acquisition of complementary x-ray scattering data, which are vital for contemporary scientific investigations. This encompasses experiments conducted under high-pressure conditions on small single crystals and within materials that demonstrate substantial neutron absorption.

In use case 5, we aim to establish suitable metadata vocabularies specifically for Inelastic Neutron Scattering (INS) and Inelastic X-ray Scattering (IXS) techniques, alongside fostering the use of electronic laboratory notebooks (ELNs). This poster demonstrates our efforts in developing metadata schemas for a triple-axis spectrometer and provides an update on the status of the electronic lab notebook being developed at MLZ.

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