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Studies of Magnetic Symmetry and Topology Using Single and Double Polarized Options on POLI

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Single crystal diffractometer with polarised neutrons POLI recently implemented at Maier-Leibnitz Zentrum (MLZ) was specially designed to perform studies of complex magnetic structures and magnetic domain populations in bulk by different polarised neutron techniques. Flipping Ratio measurements using high magnetic field, uniaxial polarisation analysis in the moderate magnetic field, and Spherical Neutron Polarimetry in Zero-field are successfully implemented. The study of magneto-electric and antiferromagnetic domains under applied electric/magnetic field as well of ferromagnetic domains by depolarisation analysis are also possible. Here we present different experimental setups available on POLI and show the examples of their applications.

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