

Upgrading POLI with a 2D detector

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Polarized neutron single-crystal diffraction is known for studying the magnetic properties of materials. However, it is limited by the availability of intense polarized neutron resources and large crystals. New detector technologies have made high-resolution and high-efficiency large area detectors possible, which can speed up the data collection and enable more capabilities. We will report our 2D detector upgrade proposal for the polarized neutron single crystal diffractometer POLI at MLZ in the MORIS program which would enhance the data acquisition efficiency greatly for single crystal measurements and enable us to study powder samples.

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