

Recent instrument development and plan on POLI

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The single crystal diffractometer POLI is dedicated to diffraction using polarized neutrons and can additionally host bulky sample environments. Currently, three standard setups are implemented on POLI: zero-field spherical neutron polarimetry, flipping ratio method with high magnetic fields and non-polarized diffraction under various special conditions. Here we reported our recently instrument developments, including an 8T magnet with very low stray fields, a supermirror bender polarizer, SEOP polarizer and analyzer, piezo-driven slits and new incident wavelengths. We will also present our detector upgrade plan related to the BIDIM detector from LLB and the proposal in the MORIS program.

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