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Historical account of polarised neutron techniques development at Grenoble

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Since the first polarised neutron experiment carried out with the diffractometer DN2 in the reactor M lusine, a tremendous work has been performed at Grenoble to develop polarisation neutron techniques.

At the ILL, among the first generation of instruments, there was only one using polarised neutrons, built by the team working at M lusine. The extraordinary step brought by the high-flux reactor opened a field of opportunities and motivated brilliant scientists, engineers and technicians to develop techniques and tools for exploiting polarised beams.

We shall present an account of the main projects that have paved the way to the polarised neutron techniques that are today proposed on 40% of the instruments and representing 25% of the total beamtime, with an emphasis on the techniques which are more relevant to Flipper's participants.

Primary author: LELIEVRE-BERNA, Eddy (Institut Laue-Langevin)

Co-author: JULLIEN, David (ILL)

Presenters: JULLIEN, David (ILL); LELIEVRE-BERNA, Eddy (Institut Laue-Langevin)

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