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The reflectometer Super ADAM at ILL

Super ADAM is an angle dispersive neutron reflectometer operated as Swedish CRG instrument at the Institute Laue-Langevin, Grenoble (France). The instrument offers very high resolution and polarization and is optimized for the study of interfaces and thin films with an emphasis on small magnetic moments. The instrument allows to record and analyze off-specular and grazing incidence small angle scattering (GISANS). Beam time is allocated via ILL proposals and an internal competitive Swedish call for beam time applications. To complement the high-resolution the beam line has been upgraded by a second end station using a shorter wavelength. This offers higher flux and a larger q -range and allows surface diffraction studies. Both end station can be operated in parallel.

In this presentation we will summarize the capabilities of the beam line, including relevant parameters, as well as scientific examples from the past years. Those range from self-assembled particle templates over the study of lipid membranes to exchange interactions in magnetic thin films. We will also provide a perspective for method developments related to the instrument and potential future upgrades and relevant scientific questions.

Please select the related topic from the list below

Instrumentation and methods

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