

ESRF meV-IXS Program Overview

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ID28 ESRF beamline is in user operation for meV-IXS studies since about twenty years. The main operational resolution is 3 meV; 1.5 meV is available on request. Single crystals are the main class of studied objects, while soft condensed matter retains some contribution.

The diffraction/diffuse scattering side station can operate in parallel with the spectrometer at the same wavelength; user experiments can be allocated for the use of single branch or both of them since 2016. Diffuse scattering provides the roadmaps for the inelastic scattering studies, thus significantly extending the throughput of main station.

The planned upgrade of optics, accompanied by beam position stabilisation, will reduce the conventional focal spot size down to 5-10 μm for both stations. Also, significant count rate gain is envisaged with the new generation of undulators.