Hard X-ray photoelectron spectroscopy at the GALAXIES beamline

Location: Synchrotron SOLEIL / GALAXIES beamline / HAXPES station

Researcher in charge of the Trainees: D. Céolin

Maximum number of Trainees: 3

The GALAXIES beamline [1], covering the photon energy range 2.3-12keV, is equipped with two permanent endstations: (i) a photoelectron spectrometer dedicated to hard X-rays studies (marked by an arrow on the figure); (ii) a diffractometer dedicated to (resonant) inelastic X-ray scattering. In principle both equipments can be used for experiments on solids, gases and liquids, the idea being mostly to determine the electronic structure and possible photoinduced dynamics in the studied samples.

Schedule expected:

The Trainees will participate to experiments carried out on the HAXPES endstation [2]: (i) measurement of a PES spectrum (and eventually Auger spectrum) on a rare gas sample in the morning; (ii) data treatment of the collected spectra plus participation to measurements with possible control of the beamline during the afternoon.
