

## ALOISA beamline

### *Advanced Line for Overlayer, Interface and Surface Analysis*



ALOISA is an **INFM beamline** at the **Elettra Synchrotron** in Trieste, Italy. Elettra is a third generation light source operating at a storage ring energy of 2 GeV. Photon beams with energy in the range 10-30000 eV are provided by wigglers and undulators with high spectral brilliance (up to 1019 photons/s/mm<sup>2</sup>/mrad<sup>2</sup>/0.1%bw).

ALOISA is a multipurpose beamline for surface science experiments. It has been designed to work in a wide spectral range (200-8000 eV) with the light beam

impinging on the sample surface at grazing incidence. Several kind of detectors have been accommodated inside the experimental chamber for performing experiments of surface X-ray diffraction, surface reflectivity, photoelectron diffraction, angle-resolved photoemission spectroscopy, momentum resolved (h $\nu$ -2e and h $\nu$ -e Auger) coincidence spectroscopy. The ALOISA beamline is run by a research group which is part of the Surface Structure Division at the TASC Laboratory.

Since March 1998 ALOISA is open to external users. The available beamtime is dedicated to experiments as follows:

- 70 % is assigned to external users via a joint INFM/Elettra committee (how to apply);
- 30 % is left to the local research unit (GdR) for in-house research, maintenance and development.

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