

## **A spectro-microscopy lab at the STAR facility**

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The Advanced Spectroscopy and Microscopy lab is settling down at the STAR facility of the University of Calabria. Its main apparatus is a UHV system that embeds a combined AFM/STM apparatus together with the cleaning and preparation tools. A series of electron spectroscopies (high resolution XPS, UPS, EELS, AES, ...) will be implemented shortly. Supplementary in-line equipment allows the fast insertion of the samples, the deposition of molecular species, the exposure to selected gases. The first results of the laboratory activities in the field of supramolecular networks, organic-inorganic interfaces and 2D materials are presented, together with the development of the new instrumentation.

The laboratory is devoted to deliver services in the field of the joint spectroscopic and microscopic characterization of surfaces and interfaces. A description of the wealth of services offered to the user by the laboratories cluster of the STAR facility is also presented.