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Experiences in several synchrotrons as a user and as staff using infrared spectroscopy and X-ray microscopy

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For most of my studies and research, I have been doing experiments in different synchrotrons. Synchrotrons are facilities where the main interest is to generate light at different frequencies, from X-ray to IR, and use the light to investigate matter. The main techniques I have worked on, is Fourier Transform InfraRed Spectroscopy and X-ray microscopy and fluorescence. These two techniques measure chemical and elemental composition of matter. In order to obtain high resolution or brightness, synchrotron light is required. Nevertheless, the access to these infrastructures is difficult because of limited time and resources. I have mainly worked at Elettra Sincrotrone Trieste in Italy, although I have had experiences in other synchrotrons. In this presentation, I will show different modalities of access to Elettra and other facilities, that can be used by international applicants for a particular measurement, or for training purposes.

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