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Insights into Spin-Polarized Unoccupied States with Inverse Photoemission Spectroscopy

Inverse photoemission is the emission of electromagnetic radiation from a solid due to electronic relaxation processes, i.e., when externally injected electrons into unoccupied states decay into lower free states. This is frequently conceived as the time-reversed photoemission effect. To date, the inverse photoemission technique has sustained rather as an ideal complement to investigate the electronic structure of solids and surfaces. Spectroscopic measurements can be performed by resolving the angle of the impinging electrons while detecting the emitted photons from the surface. In consequence, the dispersion relation of free unoccupied states can be acquired. The progress on spin-polarized electron sources has also expanded the possibility of accessing electronic properties in magnetic systems, such as *spin-orbit splittings*. Here we introduce the capabilities of the spin-resolved inverse photoemission technique and describe our experimental setup developed at the Laboratoire de Physique des Solides (Orsay).

Choix de session parallèle

Commission Culture Scientifique

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