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ARPES - A Toolbox for Surface Discoveries

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Angle Resolved PhotoEmission Spectroscopy (ARPES) is a widely used technique for the investigation of the electronic structure of materials and can also be used to study many-body interactions such as electron-phonon couplings. The characteristic that separates ARPES from other surface science techniques is that it enables the direct visualisation of the electronic structure.

In this talk, I will introduce the technique and provide examples of the type of measurements facilitated by ARPES. The focus of these examples will be on 2D materials.

A short overview of research on other light sources, as well as the emerging possibilities on the newly installed ARPES beamline at the Australian Synchrotron will be discussed.

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