Contribution ID: 218 Type: Poster

Full Hemisphere Photoemission Using the Toroidal Analyser

Thursday, 25 November 2021 17:31 (1 minute)

The toroidal analyser at the Australian Synchrotron is an angle-resolving photoelectron spectrometer capable of mapping the full hemisphere of emitted photoelectrons from a sample. This measurement capability is unusual amongst conventional photoelectron spectrometers, and permits a number unique techniques for the electronic and structural characterization of surfaces. This presentation will detail the operating principles of the spectrometer, with particular reference to the angular detection geometry, and will describe the three modes of full hemisphere photoemission (i) Fermi Surface Mapping (ii) Molecular Tomography and (iii) Photoelectron Diffraction.

Presenter Gender

Man

Do you wish to take part in the Student Poster Slam

No

Condition of submission

Yes

Students Only - Are you interested in AINSE student funding

Level of Expertise

Experienced Researcher

Pronouns

He/Him

Which facility did you use for your research

Australian Synchrotron

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Session Classification: Poster Session

Track Classification: Instruments & Techniques