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Latest Developments on the Toroidal Analyser

The Toroidal Analyser for Angle Resolved Photoelectron Spectroscopy is now well embedded in the user program at the Soft X-ray Beamline at the Australian Synchrotron. Since its initial commissioning, several upgrades to the instrument have been completed. An overview of these developments are outlined. Firstly, a docking station for vacuum "suitcases" has been installed, allowing vacuum transport of complex *ex-situ* grown samples from a user's home lab. Secondly, a new 2D delayline detector allows for true pulse counting of photoelectrons, resulting in accurate intensity x-ray photoelectron spectroscopy measurements. Finally, some recent results from initial user experiments and commissioning activities are shown, with an emphasis on the power of the instrument for full hemisphere photoemission mapping of the angular distribution of photoelectrons solids.

Level of Expertise

Experience Researcher

Presenter Gender

Man

Pronouns

He/Him

Do you intend to attend UM2022

In person - Melbourne

Students Only - if available would you be interested in student travel funding

Students Only – Do you wish to take part in the Student Poster Slam

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Yes

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