



Contribution ID: 29

Type: Poster

Characteristics of a possible ARPES beamline hosted on a Bending magnet source at the Australian Synchrotron

The Australian Synchrotron can host many different beamlines and there are still many possibilities for new beamlines to be added. This poster reports potential fluxes, photon energy resolutions and harmonic content for a collimated light Plane Grating Monochromator (PGM) optimized over the range 25 eV to 1000 eV to be placed on a bending magnet source. This poster is intended to give one possible solution to making such a beamline for Angle Resolved Photo Electron Spectroscopy (ARPES). The poster is presented to give people who might like to use such a beamline some performance possibilities and to gauge interest in forming a user community that could advocate for such a beamline here. Some comparisons in performance to other ARPES beamlines elsewhere will be discussed.

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

Terms and conditions (Please confirm that you have read all the requirements and agree to the conditions)

Yes

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Session Classification: Poster

Track Classification: Advanced Materials & Hard Matter