

APS meV-IXS Program Overview

*Ahmet Alatas, Ayman Said
Advanced Photon Source, Argonne IL*

Inelastic x-ray scattering is a unique technique that has increasing impact in addressing lattice dynamics related issues in wide range of scientific areas including condensed matter physics, geophysics and biology.

In this talk, an overview of the high-energy resolution momentum-resolved IXS program at the APS will be presented. This includes the current status of the spectrometers at sectors 3 and 30. The current beamline capabilities and the recent upgrades will also be discussed [1-3]. Moreover, future developments planned for sector 30 under APS-U enhancement project will be discussed.

- [1] Said A.H. *et.al.*, J. Synch. Rad. **27**, 827, (2020)
- [2] Toellner T.S. *et.al.*, J. Synch. Rad. **18**, 605, (2011)
- [3] Sinn H., J. Phys. Cond. Matt. **13**, 7525, (2001)

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