

APS Workshop 10: Training Workshop on X-ray Spectroscopy Data Analysis with Larch (Data Analysis Tools for X-ray Spectroscopy) and AXEAP (Argonne X-ray Emission Analysis Package)

Tuesday, April 18, Morning

AXEAP (Argonne X-ray Emission Analysis Package)

- 8:50 – 9:00 Welcome and Introduction
- 9:00 – 9:30 Chengjun Sun (Argonne National Laboratory)
Introduction to X-ray Emission Spectroscopy (XES)
- 9:30 – 10:00 Mikhail A. Solovyev (Argonne National Laboratory)
Introduction to Resonant and Non-resonant Hard X-ray Emission Spectroscopy: Principles and Uses
- 10:00 – 10:45 Inhui Hwang (Argonne National Laboratory)
Demonstration of XES Data Processing in AXEAP-1
- 10:45 – 11:00 Break
- 11:00 – 11:45 Inhui Hwang (Argonne National Laboratory)
Demonstration of XES Data Analysis in AXEAP-2
- 11:45 – 12:00 Discussion

Friday, May 5, Morning

Larch (Data Analysis Tools for X-ray Spectroscopy)

- 8:30 – 9:15 Shelly D. Kelly (Argonne National Laboratory)
Introduction to X-ray Absorption Spectroscopy
- 9:15 – 10:00 Matthew G. Newville (University of Chicago)
Overview of Larch
- 10:00 – 10:15 Break
- 10:15 – 11:00 Shelly D. Kelly (Argonne National Laboratory)
Demonstration of XANES Analysis in Larch
- 11:00 – 11:45 Matthew G. Newville (University of Chicago)
Demonstration of EXAFS Analysis in Larch

11:45 – 12:00 Discussion