

APS Training #4: A Tutorial Workshop on XPCS for Probing Dynamics in Soft and Hard Matter

Wednesday, May 5, Morning

Focus: XPCS Theory and Applications

- 8:50 – 9:00 Alec Sandy (Advanced Photon Source, Argonne National Laboratory)
Opening Remarks
- 9:00 – 10:00 Laurence Lurio (Northern Illinois University)
Probing Material Dynamics Using X-ray Photon Correlation Spectroscopy
- 10:00 – 10:30 Qingteng Zhang (Advanced Photon Source, Argonne National Laboratory)
Small-angle XPCS
- 10:30 – 11:00 Suresh Narayanan (Advanced Photon Source, Argonne National Laboratory)
Rheology XPCS
- 11:00 – 11:15 Break
- 11:15 – 11:45 Zhang Jiang (Advanced Photon Source, Argonne National Laboratory)
Grazing-incidence XPCS
- 11:45 – 12:15 Eric Dufresne (Advanced Photon Source, Argonne National Laboratory)
Wide-angle XPCS
- 12:15 – 12:30 Joseph Strzalka (Advanced Photon Source, Argonne National Laboratory)
Beam Time Application
- 12:30 – 12:45 Qingteng Zhang (Advanced Photon Source, Argonne National Laboratory)
Preparation for Day 2
- 12:45 – 1:00 *Q&A*

Thursday, May 6, Morning

Focus: Hands-on Data Analysis and Visualization

- 9:00 – 10:00 Qingteng Zhang (Advanced Photon Source, Argonne National Laboratory)
Virtual Beam Time Tour
- 10:00 – 11:00 Suresh Narayanan (Advanced Photon Source, Argonne National Laboratory)
Data Flow and Analysis
- 11:00 – 11:15 Break

11:15 – 12:00 Qingteng Zhang (Advanced Photon Source, Argonne National Laboratory)
Hands-on Data Visualization

12:00 – 12:30 *Q&A and Closing Remarks*