

Fundamentals of XAS data analysis: A hands-on tutorial

March 19-21, 2024

NSLS-II, Bldg 745 – Data Analysis Lab

AGENDA

Day 1 – Tuesday, March 19

8:30 AM – 9:30 AM	Breakfast (provided)
9:30 AM – 9:40 AM	NSLS II Director greetings
9:40 AM – 10:40 AM	Lecture 1: Introduction to XAS
10:40 AM – 11:00 AM	Break
11:00 AM – 11:10 AM	Group Photo
11:10 AM – 12:00 PM	Lecture 2: Data reduction and background removal
12:00 PM – 12:30 PM	Hands-on session: Looking into XAS data
12:30 PM – 1:15 PM	Lunch (provided)
1:15 PM – 2:45 PM	Lecture 3: EXAFS analysis I
2:45 PM – 3:05 PM	Break
3:05 PM – 4:15 PM	Hands-on session: EXAFS analysis
4:15 PM – 5:15 PM	Lecture 4: Sample preparation and sample environments
5:30 PM – 6:30 PM	Dinner (provided)

Day 2 – Wednesday, March 20

8:00 AM – 9:00 AM	Breakfast (provided)
9:00 AM – 10:00 AM	Lecture 5: XANES analysis
10:00 AM – 10:20 AM	Break
10:20 AM – 12:00 PM	Lecture 6: EXAFS analysis II
12:00 PM – 1:00 PM	Lunch (provided)
1:00 PM – 1:30 PM	Lecture 7: High energy resolution techniques
1:30 PM – 2:00 PM	Lecture 8: Combined techniques
2:00 PM – 2:20 PM	Break
2:20 PM – 4:00 PM	Hands-on session: EXAFS analysis
5:30 PM – 6:30 PM	Dinner (provided)

Day 3 – Thursday, March 21

8:00 AM – 9:00 AM	Breakfast (provided)
9:00 AM – 12:00 PM	Experimental session: XAS data collection at QAS, BMM, and ISS
10:30 AM – 10:45 AM	Break
12:00 PM – 1:00 PM	Lunch (provided)
1:00 PM – 3:00 PM	Experimental session continued
3:00 PM – 3:15 PM	Break
3:15 PM – 6:00 PM	Individual work