# X-ray Absorption Fine Structure:

## Theory, Data Analysis and Modeling

Tentative Agenda (time slots may change)

### Wednesday, November 13

Location: Medical Building 490, Large Seminar Room

8:30am	Continental Breakfast (provided)
9:00am	Anatoly Frenkel Welcoming remarks
9:10am	Anatoly Frenkel Introduction and overview of XAFS
9:40am	John Rehr Theory of XANES
10:40am	Coffee Break (provided)
11:00am	Kirill Lomachenko EXAFS equation
12:00pm	Lunch (provided – be sure to pick up your meal tickets before proceeding to
	the cafeteria)
1:10pm	Lu Ma XAFS data processing and analysis methods
2:10pm	Erjia Guan XAFS data processing with Demeter/Athena (demo)
3:10pm	Coffee Break (provided)
3:40pm	Fernando Vila FEFF9 code for XANES modeling
4:30pm	John Rehr Treatment of disorder in EXAFS analysis
5:10pm	Kirill Lomachenko EXAFS data analysis by FEFF fitting
6:00pm	Dinner (provided) – NSLS-II building 743 (LOB 3)

#### Thursday, November 14

Location: Medical Building 490, Large Seminar Room

8:30am	Continental Breakfast (provided)
9:00am	Erjia Guan EXAFS data analysis with Demeter/Artemis (demo)
10:00am	Fernando Vila FEFF9 code for XANES modeling (demo)
11:00am	Coffee Break (provided) and Group Photo
11:20am	Joseph Woicik Pre-edge features in XANES: application to materials
	research
12:00pm	Lunch (provided – be sure to pick up your meal tickets before proceeding to
	the cafeteria)
1:20pm	Anatoly Frenkel Advanced topics: Multiple scattering EXAFS analysis
2:20pm	Kirill Lomachenko XANES data analysis by Principal Component
	Analysis and MCR-ALS

3:20pm	Coffee Break (provided)
3:40pm	Nicholas Marcella Artificial neural network approach to XANES and EXAFS data
	analyses
4:40pm	Yuanyuan Li Structural analysis and modeling of mono- and bimetallic
	nanoparticles using EXAFS
5:30pm	A. Frenkel Synchrotron Catalysis Consortium at BNL
6:00pm	Dinner (provided) – NSLS-II building 743 (LOB 3)

### Friday, November 15

Location: Medical Building 490, Large Seminar Room

8:30am	Continental Breakfast (provided)
9:00am	Data analysis practicum
	Instructors: A. Frenkel, E. Guan, J. Huang, J. Lee, Y. Li, K. Lomachenko, L. Ma, N.
	Marcella, N. Marinkovic, J.Rehr, Y. Tian, F. Vila, J. Woicik, Z. Xie
12:00pm	Lunch (provided – be sure to pick up your meal tickets before proceeding to
	the cafeteria)
1:00pm	Data analysis practicum
	Instructors: A. Frenkel, E. Guan, J. Huang, J. Lee, Y. Li, K. Lomachenko, L. Ma, N.
	Marcella, N. Marinkovic, J.Rehr, Y. Tian, F. Vila, J. Woicik, Z. Xie
5:00pm	Adjourn