

Workshop "POLAR" beamline
April 25, 2017

This workshop seeks input from the user community to refine the preliminary design of the POLAR beamline.

Agenda

Morning Session: 9:00-12:30
Chair: Dean Haeffner, APS-U

9:00-9:20 Dean Haeffner, APS-U: Overview APS-U project

9:25-10:05 Daniel Haskel, APS: *Polarization Modulation Spectroscopy: Electronic Matter under extreme conditions* (POLAR beamline)

10:10-10:30 Ruben Reininger, APS: *Optimization of Focusing optics for POLAR beamline*

10:35-10:55 Yury Ivanyushenkov, APS: *Universal Polarizing Superconducting Undulator for Hard X-ray Science*

11:00-11:15 Coffee Break

11:15-11:55 Dr. Sakura Pascarelli, ESRF: *Coupling polarized XAS and high pressure at ESRF*

12:00-12:30 Dr. Eric Bauer, LANL: *The Need for Next Generation X-ray Spectroscopy Studies of Strongly Correlated Electron Systems*

12:35-13:30 Lunch

Afternoon session (13:30-17:00)
Chair: Guoyin Shen, CIW/HP-CAT

13:30-14:00 Prof. James S. Schilling, WUSTL: *Strongly Enhanced Magnetic Ordering Temperatures in Lanthanides at Extreme Pressures*

14:05-14:35 Prof. Gang Cao, UC Boulder: *Probing novel states of spin-orbit-tuned iridates at high pressures*

14:40-15:10 Dr. Gilberto Fabbris, BNL: *Probing the connection between electronic and structural nanoscale inhomogeneities with single crystal polarized XAFS and diffraction.*

15:15-15:45 Prof. Sara Haravifard, Duke University: *Pressure-induced Exotic States in Quantum Magnets*

15:50-16:20 Prof. Michael Shatruk, FSU: *Investigation of pressure-induced intermediate valence and magnetism in europium-cobalt pnictides*

16:25-16:35 Coffee break

16:35-17:05 User input/User slides/discussion

17:15 Adjourn

18:30 No host dinner, location TBD