

Magnetic Structure Determination from Neutron Diffraction Data Workshop

June 5-8, 2014

Thursday, June 5, 2014
Downtown Hilton

Time	Event	Lead	Affiliation
8:00-8:30am	Breakfast		
8:30-8:45am	Welcome Remarks	Bryan Chakoumakos	Oak Ridge National Laboratory
8:45-9:45am	Experimental aspects of Neutron Diffraction	William Ratcliff	NIST Center for Neutron Research
9:45-10:30am	Introduction to the Fullprof Suite	Juan Rodriquez-Carvajal	Institut Laue-Langevin
10:30-10:45am	Break		
10:45-12:00pm	Introduction to the Fullprof Suite cont....	Juan Rodriquez-Carvajal	Institut Laue-Langevin
12:00-1:30pm	Working Lunch: <i>Where to run your Neutron Diffraction Experiments</i>	ALL	
1:30-2:30pm	Strategies for determining Magnetic Structures using Fullprof	Juan Rodriquez-Carvajal	Institut Laue-Langevin
2:30-4:00pm	Representation Theory in Magnetic Structure Analysis	William Ratcliff	NIST Center for Neutron Research
4:00-4:15pm	Break (<i>Refreshments served</i>)		
4:15-5:30pm	Introduction to Sarah/BasIrreps	William Ratcliff	NIST Center for Neutron Research
5:30-6:00pm	Group Discussion	ALL	

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Friday, June 6, 2014
Downtown Hilton

Time	Event	Lead	Affiliation
8:00-8:30am	Breakfast		
8:30-10:30am	Hands-on in Commensurate Magnetic Structure (Constant wavelength data) [Example 1]	Clarina de la Cruz	Oak Ridge National Laboratory
10:30-10:45am	Break		
10:45-12:00pm	Hands-on in Commensurate Magnetic Structure (Constant wavelength data) [Example 1], cont'd.....	Clarina de la Cruz	Oak Ridge National Laboratory
12:00-1:30pm	Working Lunch: <i>Alternative ways to describe the magnetic phase</i>	ALL	
1:30-3:30pm	Hands-on in Incommensurate magnetic structure (Constant wavelength data) [Example 2]	Ovi Garlea	Oak Ridge National Laboratory
3:30-3:45pm	Break (<i>Refreshments served</i>)		
3:45-5:00pm	Hands-on in Incommensurate magnetic structure (Constant wavelength data) [Example 2] cont'd...	Ovi Garlea	Oak Ridge National Laboratory
5:00-6:00pm	Group Discussion	ALL	

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Saturday, June 7, 2014
Downtown Hilton

Time	Event	Lead	Affiliation
8:00-8:30am	Breakfast		
8:30-10:30am	Hands-on in Commensurate Magnetic Structure from TOF data [Example 3]	Ovi Garlea	Oak Ridge National Laboratory
10:30-10:45am	Break		
10:45-12:00pm	Hands-on in Commensurate Magnetic Structure from TOF data [Example 3] cont'd...	Ovi Garlea	Oak Ridge National Laboratory
12:00-1:30pm	Working Lunch: <i>Tips on solving specific magnetic structures from data provided by participants</i>	ALL	
1:30-3:30pm	Combined refinement of two sets of data (TOF or Constant wavelength) [Example 4]	Ovi Garlea	Oak Ridge National Laboratory
3:30-3:45pm	Break (<i>Refreshments served</i>)		
3:45-6:00pm	Hands-on in simulated Annealing [Example 5]	Juan Rodriguez-Carvajal	Institut Laue-Langevin

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Sunday, June 8, 2014
Downtown Hilton

Time	Event	Lead	Affiliation
8:00-8:30am	Breakfast		
8:30-10:30am	Hands-on in simulated Annealing [Example 5] cont'd...	Juan Rodriguez-Carvajal	Institut Laue-Langevin
10:30-10:45am	Break		
10:45-12:00pm	Hands-on in Commensurate and Incommensurate Magnetic structures from Single Crystal data [Example 6]	Huibo Cao	Oak Ridge National Laboratory
12:00-1:30pm	Working Lunch: <i>Tips on solving specific magnetic structures from data provided by participants</i>	ALL	
1:30-3:30pm	Hands-on in Commensurate and Incommensurate Magnetic structures from Single Crystal data [Example 6]...cont'd	Huibo Cao	Oak Ridge National Laboratory
3:30-3:45pm	Break (<i>Refreshments served</i>)		
3:45-5:00pm	Additional remarks on magnetic structures from Powder or Single Crystal data	ALL	Institut Laue-Langevin
5:00-5:30pm	Discussion/Closing	ALL	