



QCMD VI Joint Meeting
New States of Matter and their Excitations
September 12-14, 2012

Wednesday, September 12, 2012

Clinch River Cabin at ORNL

Time	Event	Presenter	Building, Room
7:00 - 8:00 a.m.	Breakfast at the Guest House		
8:00 - 8:45 a.m.	Pick up Visitor's Badge if necessary		5200/Visitor's Center
8:45 - 9:15 a.m.	Travel to ORNL Cabin		
9:30 - 10:00 a.m.	Welcome and objectives, overview of ORNL & QCMD	Steve Nagler, Director of the QCMD	
10:00 - 10:30 a.m.	Overview of Virtual Institute	Alan Tennant	
10:30 - 11:00 a.m.	Break and Mixer – discuss collaborations	All	
11:00 - 11:30 a.m.	Overview of SNS instruments	Mark Lumsden	
11:30 - 12:00 p.m.	Overview of HFIR instruments	Jaime Fernandez-Baca	
12:00 - 1:00 p.m.	Lunch & discuss collaborations	All	
1:00 - 2:00 p.m.	Modeling Magnetism in the Natural Mineral Azurite	Andreas Hoenecker	
2:00 - 2:30 p.m.	Low dimensional magnetism and topological magnetic frustration in copper-based delafossite oxides	Ovidiu Garlea	
2:30 - 3:00 p.m.	Magnetic order of the honeycomb lattice Na_2IrO_3 and single layer Sr_2IrO_4	Feng Ye	
3:00 - 3:30 p.m.	Break	All	
3:30 - 4:30 p.m.	Diffuse scattering in topological and frustrated systems	Jonathan Morris	
4:30 - 5:00 p.m.	Spin-lattice coupling and magnetic excitations in triangular lattice antiferromagnet Ag_2CrO_2	Masaaki Matsuda	
6:00 p.m.	Dinner on your own		



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7:45 - 8:30 a.m.	Breakfast at the Guest House	
8:30 - 8:45 a.m.	Travel to ORNL Cabin	
9:00 – 10:00 a.m.	Quantum criticality	Santiago Grigera
10:00 -10:30 a.m.	Field-induced quantum critical behavior in an S=1/2 Heisenberg two-leg ladder antiferromagnet".	Tao Hong
10:30 - 11:00 a.m.	Morning Break and Mixer – discuss collaborations	All
11:00 - 12:00 p.m.	Boundary resonances in S=1/2 antiferromagnetic chains under staggered field	Misaki Oshikawa
12:00 - 1:00 p.m.	Lunch & discuss collaborations	All
1:00 - 1:30 p.m.	Magnetism in osmium oxides: the Slater insulator and extended superexchange interactions	Stuart Calder
1:30 - 2:30 p.m.	Quantum fluctuations in exchange based spin-ice	Collin Broholm
2:30 - 3:00 p.m.	Break	All
3:00 - 4:00 p.m.	Exotic phases in quantum triangular magnets	Oleg Starykh
4:00 - 4:30 p.m.	Successive magnetic phase transitions in new triangular lattice magnets	Zhou Haidong
4:30 - 5:00 p.m.	Study of spin wave excitations in multiferroic systems with the Cold Neutron Chopper Spectrometer at the SNS.	Georg Ehlers
6:00 p.m.	Arrive at Calhoun's on the River (downtown)	All
6:30 - 9:00 p.m.	Working Dinner "The Origin of Neutron Diffraction"	Steve Nagler



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Friday, September 14, 2012

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7:00 - 8:00 a.m.	Breakfast at the Guest House	
8:00 - 8:15 a.m.	Travel to ORNL Cabin	
8:30 - 9:30 a.m.	Thermal Transport and Dynamics in Spin Ice	Bastian Klemke
9:30 - 10:00 a.m.	Quasi-One-Dimensional Magnons in an Intermetallic Marcasite	Matthew Stone
10:00 - 10:30 a.m.	Break and Mixer – discuss collaborations	All
10:30- 11:30 a.m.	String excitations in quantum spin ice.	Oleg Tchernyshyov
11:30 - 12:30p.m.	Lunch & discuss collaborations	All
12:30 - 1:30 p.m.	Thermal Effects in Quantum Magnets	Alan Tennant
1:30 - 2:30 p.m.	Free Discussion & Plans	All
2:30 - 5:00 p.m.	Tours of HFIR & SNS	All