

Poster Session I – Tuesday June 5, 2012

Subject	Poster Title	Ref # & Presenter
Artificial and molecular frustrated spin systems	Frustrated Ising model on Cairo pentagonal lattice	HFM1208 – Onofre Rojas
	Spin gap and Susceptibility of Spherical Kagome Cluster Mo ₇₂ V ₃₀	HFM1214 – Nobutaka Kunisada,
Coupling between lattice, spin, orbital, and charge degrees of freedom	Anomalous antiferromagnetic behavior in LaVO ₃	HFM1256 – Mangala Singh
	Spin chirality ordering and generalized Kohn anomaly in geometrically-frustrated Kondo lattice systems	HFM1249 – Yutaka Akagi
	ESR in 6H-perovskite Ba ₃ CuSb ₂ O ₉	HFM1277 – Masayuki Hagiwara
	Effect of Particle Size on Magnetic Properties of NiCr ₂ O ₄ Spinel Compound	HFM1279 – Harkirat Singh
	Charges and spins dynamics of ferromagnetic Ni excited in the mid infrared	HFM1284 – Amani Zagdoud
	Raman phonons study of Jahn-Teller distortion in Ba ₃ CuSb ₂ O ₉	HFM1289 – Natalia Drichko
	Microscopic magnetic models for α - and γ -CuMoO ₄	HFM12110 – Oleg Janson
	Competition between frustrated dipoles and frustrated quadrupoles in an S = 1 system	HFM12122 – Tamás A. Tóth
	Dynamical Jahn-Teller effect in a spin-orbital coupled system: implications to magnetic and orbital state in Ba ₃ CuSb ₂ O ₉	HFM12127 – Joji Nasu
Heavy Fermion Superconductors	Direct observation of a Quantum Critical Point in CeRhSi ₃	HFM12112 – Jorge Gavilano
Hyper-kagome systems	Series expansion studies of hyperkagome and pyrochlore lattice antiferromagnets	HFM1230 – J Oitmaa
	Absence of Magnetic Order in Co-doped β -Mn	HFM12107 – Joe Paddison
Itinerant frustrated systems and exotic superconductivity	Chiral Mott insulator, chiral superfluidity, and other exotic orders in fully frustrated quantum XY models	HFM1204 – Arun Paramekanti
	Anomalous Hall effect of the Kagome-lattice itinerant antiferromagnet Mn ₃ Sn	HFM1236 – Hiroshi Takatsu
	Frustration controlled metal-insulator transition on the anisotropic triangular lattice	HFM1243 – Matthew Enjalran
	Transport theory of spin ice conduction systems	HFM1260 – Masafumi Udagawa
Multiferroic phenomena	The magnetic phase diagram of CuO: Ultrasonic measurements and	HFM1222 – Renan Villarreal

	Landau free energy	
	Response of the magnetic domain population in CuO to high voltage electric fields	HFM1246 – A. Poole
	Theory of magneto-optical effects in helical magnets via toroidal magnon	HFM1293 – Shin Miyahara
Pyrochlore systems	Magnetic polarons in frustrated magnetic systems	HFM1206 – Vyacheslav Storchak
	Heat transport in $R_2Ti_2O_7$ (R=rare earth)	HFM1210 – Makoto Tachibana
	Generic quantum spin ice	HFM1215 – SungBin Lee
	Magnetic Entropy in $Er_xY_{2-x}Ti_2O_7$ Pyrochlores as Functions of Temperature, Field and Composition	HFM1217 – Mary Anne White
	Spin excitations in $Tb_2Sn_2O_7$ and $Tb_2Ti_2O_7$	HFM1220 – Sylvain Petit
	Magnetisation process in $Er_2Ti_2O_7$ and $Tb_2Ti_2O_7$ with field along [111]	HFM1224 – Pierre Bonville
	Field induced double-layered monopolar order in $Tb_2Ti_2O_7$ spin liquid	HFM1225 – Arsen Gukasov
	Spin Dynamics of $Dy_2Ti_2O_7$ in a [111] Field	HFM1228 – M. J. Matthews
	Quantum Strings in Quantum Spin Ice	HFM1232 – Yuan Wan
	Millimeter and Submillimeter Wave Spectroscopy Study of $Ho_2Ti_2O_7$	HFM1263 – LiDong Pan
	Continuous Metal-Insulator Transition in the Pyrochlore Iridate $Eu_2Ir_2O_7$	HFM1265 – Jun J. Ishikawa
	Spin and charge order in a spin-ice type Kondo lattice model: Monte Carlo study	HFM1270 – Hiroaki Ishizuka
	Unconventional spin-glass behaviors in pyrochlore Heisenberg antiferromagnets coupled with lattice distortions	HFM1272 – Hiroshi Shinaoka
	Magnetic ordering and metal-insulator transition in pyrochlore oxide $Cd_2Os_2O_7$	HFM1273 – Ichihiko Yamauchi
	Multiple phase transitions in $Gd_2Sn_2O_7$ at low temperature as a function of field, studied by neutron powder diffraction	HFM1275 – J. R. Stewart
	Seeing the light: experimental signatures of emergent electromagnetism in a quantum spin ice	HFM1282 – Owen Benton
	Universal monopole scaling near confinement transitions in spin ice	HFM1285 – Stephen Powell
	First-principles study on noncollinear magnetism and effects of spin-orbit coupling in 5d pyrochlore oxide $Cd_2Os_2O_7$	HFM1288 – Hiroshi Shinaoka
	Possible quantum diffusion of muonic polarons in $Dy_2Ti_2O_7$	HFM1291 – Paul McClarty
	Tetrahedral Magnetic Order and the Metal-Insulator Transition in the Pyrochlore Lattice of $Cd_2Os_2O_7$	HFM1292 – J. Yamaura

	Oxynitride Pyrochlores for Frustrated $S = \frac{1}{2}$ Antiferromagnets	HFM1294 – Lucy Clark
	Topological Sector Fluctuation & Curie Law Crossover in Spin Ice	HFM1296 – Ludovic Jaubert
	Avalanches in the spin-ice compound Dy ₂ Ti ₂ O ₇	HFM12104 – Elsa Lhotel
	Very low temperature magnetization measurements in Tb ₂ Ti ₂ O ₇	HFM12105 – Elsa Lhotel
	Magnetic Order and Ice Rules in FeV ₂ O ₄	HFM12111 – Gregory MacDougall
	Spin Dynamics in the frozen state of the dipolar spin ice material Dy ₂ Ti ₂ O ₇	HFM12115 – J. B. Kycia
	A study of Tb ₂ Ti ₂ O ₇ via capacitive dilatometry	HFM12117 – Kevin Liu
	Spin fluctuations in the spin liquid state of Tb ₂ Ti ₂ O ₇	HFM12129 – Hiroaki Kadowaki
	Bionic Deconfinement on the Pyrochlore lattice	HFM12130 – Vedika Khemani
	Resonant Inelastic X-ray Scattering Measurements on the Pyrochlore Iridate Eu ₂ Ir ₂ O ₇	HFM12131 – Patrick Clancy
	Rare orbital glass state in single crystalline Y ₂ Mo ₂ O ₇	HFM12138 – Harlyn Silverstein
	Magnetic Ground States of the Germanate Pyrochlores	HFM12139 – Alannah Hallas
Pyrochlore kagome	Thermal transport of the dipolar spin ice material Ho ₂ Ti ₂ O ₇	HFM12106 – W. H. Toews
Spin Ice	Towards the Kasteleyn transition in kagome spin ice	HFM1233 – Peter Holdsworth
Other	First order ferroelastic phase transition in multiferroic CuCrO ₂	HFM1238 – Oktay Aktas