

Poster board size is 4 feet by 4 feet, with both sides available for posting.

Session I. TUESDAY JULY 1 and Tuesday July 15
General, weird and interesting-looking

- 1)
John Paul Cumings Manipulating Nanotubes: Bearings, Springs and Rheostats"
- 2)
Julienne Hill, Prospecting for New Materials
- 3)
Minjian Fe/Fe Silicide Deposition on Si substrate and Analysis techniques
- 4)
Bjoern Michaelis, Selfenergy functional theory - a new approach to calculate
first order phase transitions in strongly correlated electron systems
- 5)
Benjamin G. Ueland, Spin Ice Dynamics
- 6)
Daniel Queen, Thin Film Microcalorimetry (sub title: "Low Temperature Cp of CoO")
- 7)
Daniel Podolsky, Theoretical suggestions for the detection of spin nematic order
- 8)
Louise Ejlsing, Magnetic sensors for micro-particle detection
- 9)
Chenggang Zhou,
Effect of a Periodic Potential on the Longitudinal Conductance of Two
Dimensional Electron Gas in IQHE Regime
- 10)
Byounghak Lee, Carrier Mediated Novel Magnetic Phases (in double exchange models)
- 11)
David Pekker, Magnetic Hedgehog Excitations in Manganites
- 12)
Peter Sharma, Thermal conductivity of Multiferroic YMnO₃: extraordinary spin-phonon
interactions

Session II. MONDAY JULY 7 and Tuesday July 22
Spintronics

- 1)

Alexandre Reily Rocha, Current induced charging effects in magnetic point contacts

2)

Plamen Stamenov, Magnetoresistance in Metal-Semiconductor Structures

3)

Enrico Rossi, Spin-transport in magnetic multilayers

4)

Vadim Puller, Spin Relaxation in a Quantum Well

5)

Denis Demchenko, Interband Resonant Tunneling in Magnetic Heterostructures:
Spin-Dependent Effects

6)

Kenneth Burch, Infrared Study of Localized and Itinerant Carrier Dynamics in Digital
Ferromagnetic Heterostructures

7)

Vadim Kovalev, Electron Transport and Interference in a Semiconductor Double-Dot
in the Presence of Magnetic Field

8)

Heidemarie Schmidt, Experimental and theoretical investigation of III-V semiconductors for
Optoelectronics and of II-VI semiconductors for Spintronics

9)

Alvaro Nunez, Theory of Optical Spin Transfer in GaAs:Mn

11)

Wayne Lau, Gate-controlled electron spin coherence in III-V semiconductor nanostructures.

12)

Yuriy Pershin, Amplification and Relaxation of Electron Spin Polarization in
Semiconductor Devices

Session III. WEDNESDAY JULY 9 and Wednesday July 16

Quantum fluctuations and criticality and frustration

1)

Andre Vieira, Aperiodic quantum
spin chains

3)

Sergei Isakov, Interplay of quantum and thermal fluctuations in a frustrated magnet

4)

Minhyea Lee, High Resolution Study of the Pressure-driven Quantum Critical Point in a
CrV alloy

5)

R.K. Kaul, Mesoscopic Fluctuations of the Quantum Dot Kondo Effect

6)

Michael Hermele, Pyrochlore Photons: The U(1) Spin Liquid in a S=1/2 Three-Dimensional Frustrated Magnet

7)

Maged Elhajal, Spin-phonon coupling in small frustrated magnetic clusters

8)

William Ratcliff, An Experimental revisitation of the triangular lattice and magnetic frustration

9)

Predrag L Nikolic, Kagome Lattice Antiferromagnet: Physics of the Low Energy Singlet States

10)

Sara Bergkvist, A quantum Monte Carlo study of the spin-1 random-singlet phase

11)

Bjoern Michaelis, Selfenergy functional theory - a new approach to calculate first order phase transitions in strongly correlated electron systems

12)

Jason Jackiewicz, Instabilities in Weak Ferromagnetic Metals

=====
=====

Session IV. Monday July 7 and TUESDAY JULY 15

More quantum fluctuations - impurities, disorder, instabilities, etc.

=====

1)

Carlos E. Ancona Torres, Classical and Quantum Aging in a Disordered Ising Magnet

2)

Gil Refael, Spin Reduction Transition in Spin-3/2 Random Heisenberg Chains"

3)

Eddy Yusuf, Thermodynamics of Disordered Spin Ladders

4)

Martin Linden, Anticlass Dynamics in a Disordered Quantum Magnet

5)

Jason Jackiewicz, Instabilities in Weak Ferromagnetic Metals

6)

Ananth Venkatesan, Possible ferromagnetic instability in a strongly interacting 2D electron system.

7)

Simon Kos, Specific heat at the transition in a superconductor with

fluctuating magnetic moments

8)

Adilet Imambekov, Singlet and nematic insulating phases of spin-one bosonic atoms
in optical lattices

9)

J

ianping Hu, Novel junction in strong correlated system

10)

Michael Lawler Quantum Hall Smectics: Not A Simple Theory

11)

Noah Bray-Ali, Quantum Destruction of Stiffness in Diluted Superconductors and
Antiferromagnets

12)

George Mias, Quantum Magnetism and Domain Walls in LiHoF₄

Session V. WEDNESDAY JULY 16 and Tuesday July 23

micro/nanomagnetism

1)

Sergei Urazhdin, Current-Driven Magnetic Excitations in Nanofabricated Magnetic
Multilayers

2)

Ersin Kececioglu, Boundary jump instantons in magnetic molecules

3)

John Paul Cumings, Manipulating Nanotubes: Bearings, Springs and Rheostats

4)

Kristen Buchanan, Ultrafast Magnetic Relaxation in Nanocomposite Materials

5)

Nikolai Sinitsyn, Nuclear spin bath effects on Landau-Zener transitions in nanomagnets

6)

Stine Nyborg Klausen, Magnetic
dynamics of hematite nanoparticles studied
with inelastic neutron scattering

7)

Mikhail Polianski, Current-induced transverse spin-wave in a thin nanomagnet

8)

Louise Ejlsing, Magnetic sensors for micro-particle detection

9)

Yaroslav Bazaliy, Superconducting Switch Controlled by Proximity to Ferromagnets

10)
Eun-Ah Kim, Double Point Contacts in Quantum Hall Line Junctions

11)
Miro Belov, Ultrafast spatiotemporal magnetization dynamics of thin film microstructures

12)
Cathrine Frandsen, Inter-particle interactions between antiferromagnetic nanoparticles

Session VI. Tuesday July 1 and TUESDAY JULY 23
oxides, superconductors and thin film growth

1)
Hirotoshi Terashita, Magnetic order and polaron formation in hole-doped LaMnO₃

2)
Theja Nilantha De Silva, Theory for Spin and Orbital orderings in the high
temperature phase in YVO₃

3)
Peter Sharma, Thermal conductivity of Multiferroic YMnO₃: extraordinary spin-phonon
interactions

4)
Sasha Krichevsky Time-Resolved Scanning Kerr Microscopy study of thin-film
ferromagnetic elements, as well as some simulations

5)
David Pekker, Magnetic Hedgehog Excitations in Manganites

6)
Priya Gopal, Interplay between magnetic ordering and structure in MnO

7)
Ju-Hyun Park, Magnetic and Magnetooptical Properties of Fe-CN-Ni and Fe-CN-Co Quasi
two-dimensional films

8)
Timo Nachtrab, Intrinsic Tunneling in Layered Superconductors and Layered
Manganites

9)
Tami Pereg-Barnea, Quasiparticle interference patterns in the
superconducting and pseudogap phases of a d-wave superconductor

10)
Noah Bray-Ali, Quantum Destruction of Stiffness in Diluted Superconductors and
Antiferromagnets

11)

Minjian Fe/Fe Silicide Deposition on Si substrate and Analysis techniques

12)

Daniel Queen, Thin Film Microcalorimetry (sub title: "Low Temperature Cp of CoO")