New Developments in Quantum Hall Effect

May 7-9, 1999

Friday, May 7

3-180 Electrical Engineering/Computer Science Building

8:15 - 9:00 a.m. Registration

9:00 - 9:05 a.m. Welcome

9:05 - 9:30 a.m. James Eisenstein, Caltech
"New Correlation Phenomena in High Landau Levels"

9:30 - 10:00 a.m. Rui-Rui Du, University of Utah
"Isotropic and Anisotropic Electronic Phases in Higher Landau Levels"

10:00 – 10:30 a.m. Coffee Break

10:30 - 11:00 a.m. F. Duncan Haldane, Princeton University
"Transitions between Paired and Striped Phases in Half-filled Landau Levels"

11:00 - 11:30 a.m. Eduardo Fradkin, University of Illinois
Electronic Liquid Crystal Phases of Quantum Hall Systems

11:30 - 1:00 p.m. Lunch, East Wing, Campus Club, 4th Floor Coffman Union

Afternoon Session, 3-180 Electrical Engineering/Computer Science Building

1:00 – 1:30 p.m. Bertrand I. Halperin, Harvard University
"Relation between the Fermion-Chern-Simons Theory and the Dipolar Quasiparticle Description of Composite Fermions.

1:30 - 2:00 p.m. Robert L. Willett, Lucent Technologies
"Even More Fermi Surface Effects in Quantum Hall Regime"

2:00 – 2:30 p.m. Coffee Break

2:30 - 3:00 p.m. Vladimir Goldman, SUNY, Stony Brook
"Composite Fermion Transport Near nu = 1/2"

3:00 - 3:30 p.m. A. Pinczuk, Lucent Technologies
"Light Scattering Spectroscopy in the Quantum Hall Regimes: Electron Liquids and Quantum Phase Transitions"

Saturday, May 8

3-180 Electrical Engineering/Computer Science Building

9:00 – 9:30 a.m. Allan MacDonald,
The Rich World of Quantum Hall Ferromagnets

9:30 – 10:00 a.m. Sylvia Kronmueller
The Huge Longitudinal Resistance Maximum

10:00 – 10:30 a.m. Coffee Break

10:30 – 11:00 a.m. Woowon Kang
Spin transitions and spontaneous magnetic ordering in the fractional quantum Hall effect

11:00 – 11:30 a.m. Eugene Demler,
Magnetic Phases of Double Layer Quantum Hall Systems

11:30 - 1:00 p.m. Lunch, East Wing, Campus Club, 4th Floor Coffman Union

Afternoon Session, 3-180 Electrical Engineering/Computer Science Building

1:00 – 1:30 p.m. Danny Shahar
The quantum-Hall to insulator transition at B=0

1:30 – 2:00 p.m. Mansour Shayegan
Transport in GaAs/AlGaAs 2D Hole Systems

2:00 – 2:30 p.m. Coffee Break

2:30 – 3:00 p.m. John Chalker
Quantum Hall plateau transitions in disordered superconductors

3:00 – 3:30 p.m. Matthew P.A. Fisher
Phase coherence in Quantum Hall systems and possible pairing at zero field

3:30 – 4:00 p.m. Ravindra Bhatt, TBA

Sunday, May 9

3-180 Electrical Engineering/Computer Science Building

9:00 – 9:30 a.m. Xiao-Gang Wen
Binding transitions on FQH edges

9:30 – 10:00 a.m. Alexei Efros
Electrostatics of Quantum Hall Liquid

10:00 – 10:30 a.m. Coffee Break

10:30 – 11:00 a.m. Nicholas Read
TBA

11:00 – 11:30 a.m. Mikhail Fogler
Unconventionally Sharp Dynamical Resonances from the Disordered Wigner Solid