

THEORETICAL PHYSICS INSTITUTE
UNIVERSITY OF MINNESOTA
**WORKSHOP ON COMPRESSIBLE
STATES IN QUANTUM HALL EFFECT**
MINNEAPOLIS, MINNESOTA
APRIL 29 - MAY 1, 1994

Friday, April 29

3-180 EE/CSci Building

- 9:00 Halperin, B.I. - Harvard University
Compressible States in the Quantum Hall Effect. Overview
- 10:00 - 10:40 BREAK
- 10:40 Willet, R.L. - Lowest Landau Level
Experimental Evidence of a Fermi Surface at One-Half Filling of the AT&T Bell
Labs
- 11:20 Jain, Jainendra - SUNY Stony Brook
Excitations of Composite Fermions
- 12:00 - 1:30 LUNCH
- 1:30 Goldman, Vladimir - SUNY Stony Brook
Detection of Composite Fermions by Magnetic Focusing
- 2:10 Read, Nicholas - Yale University
Physics of the Compressible $\nu=1/2$ State
- 2:50 - 3:20 BREAK
- 3:20 Kang, Woowon - AT&T Bell Labs
Geometrical Resonance of Composite Fermions in Anti-Dot Superlattice
- 4:00 Haldane, F.D. - Princeton University
Numerical Studies of the $\nu=1/2$ State in Periodic Geometries, and Other Aspects
of the Compressible State
- 4:40 Chklovskii, D.B. - MIT
Composite Fermions and Edge States

Saturday, April 30

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- 9:00 Thouless, David - University of Washington
Screening and Current Density in the Integer Quantum Hall Effect
- 9:40 Ashoori, Raymond – MIT
Coulomb Gaps of the Two-Dimensional Electron Gas
- 10:20 - 10:50 BREAK
- 10:50 Eisenstein, James - AT&T Bell Labs
Compressibility of the 2D Electron Gas on Long and Short Timescales
- 11:30 Efros, Alexei L. - University of Utah
Classical Coulomb Gap in 2D-Gas in a Strong Magnetic Field
- 12:10 - 1:30 LUNCH
- 1:30 Wen, X.G. - MIT
Topological Order and Edge Excitations in Fractional Quantum Hall Effect
- 2:10 McEuen, Paul - UC Berkeley
Submicron NMR Using Spin-polarized Edge States
- 2:50 - 3:20 BREAK
- 3:20 Fisher, Matthew - UC Santa Barbara
Randomness at the Edge
- 4:00 Kane, Charles L. - University of Pennsylvania
Edge Transport and Tunneling in the Fractional Quantum Hall Effect
- 4:40 Gerhardts, R. - Max-Planck-Institute
Self-Consistent Calculation of Edge Channels in Laterally Confined Two-
Dimensional Electron System

Sunday, May 1

Radisson Hotel

- 9:00 Tsui, Daniel C. - Princeton University
Dielectric Response of 2D Electrons in the Re-Entrant Insulating Phase
- 9:40 Kivelson, Steve - UC Los Angeles
Phases and Phase Transitions in the Quantum Hall Effect
- 10:20 - 10:50 BREAK
- 10:50 Girvin, S. and MacDonald, A. - Indiana University
Spontaneous Interlayer Coherence in Double-Layer Quantum Hall Systems
- 11:30 DasSarma, Sankar - University of Maryland
Localization-Delocation Transitions in Quantum Hall Systems
- 12:10 - 1:30 LUNCH
- 1:30 Chalker, J. - University of Oxford
Delocalization in Spin-Degenerate Landau Levels
- 2:10 Wingreen, Ned - NEC Research Institute
Dots in Dots: Level Spectroscopy in the Quantum Hall Regime