

Applications of Conformal Field Theory

Monday October 15, 2001

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| 8:30–9:15 | <i>Check-In/Light Breakfast (Hosted by IPAM)</i> |
| 9:15–9:30 | <i>Welcoming Address by IPAM Director Mark Green</i> |
| 9:30 | <i>Conformal Field Theory and Lattice Models</i> |
| 9:30–10:30 | Jane Kondev (Brandeis University)
<i>Loops, heights, CFTs, and beyond</i> |
| 10:30–11:00 | <i>Coffee Break</i> |
| 11:00–12:00 | Claudio Chamon (Boston University)
<i>Reparametrization Invariance and the non-equilibrium dynamics of aging systems</i> |
| 12:00–2:00 | <i>Lunch (on your own)</i> |
| 2:00 | <i>Integrable Systems</i> |
| 2:00–3:00 | Nicholas Read (Yale University)
<i>Exact spectra of conformal supersymmetric nonlinear sigma models in two dimensions</i> |
| 3:00–3:30 | <i>Coffee Break</i> |
| 3:30–4:30 | Fabian Essler (University of Warwick)
<i>Spectral Function of one dimensional Mott and CDW Insulators</i> |
| 5:00–12:00 | <i>Wine/Cheese Reception (Hosted by IPAM)</i> |



Tuesday October 16, 2001

- 9:00–9:30 *Continental Breakfast*
- 9:30 *Percolation and Related Critical Points in Random Systems*
- 9:30–10:30 **John Cardy** (Oxford University)
Exact Scaling Functions for Self-Avoiding Loops and Branched Polymers
- 10:30–11:00 *Coffee Break*
- 11:00–12:00 **Stanislav Smirnov** (KTH (Royal Institute of Technology), Stockholm)
Conformal invariance of critical percolation
- 12:00–2:00 *Lunch (on your own)*
- 2:00–3:00 **Jesper Jacobsen** (Universite de Paris-Sud)
Conformal field theory of the Flory model of polymer melting
- 3:00–3:30 *Coffee Break*
- 3:30–4:30 **John Imbrie** (University of Virginia)
Branched Polymers and Dimensional Reduction

Wednesday October 17, 2001

- 9:00–9:30 *Continental Breakfast*
- 9:30 *Disordered Electron Systems*
- 9:30–10:30 **Thomas Spencer** (Institute for Advanced Studies, Princeton)
A supersymmetric approach to Random Matrices
- 10:30–11:00 *Coffee Break*
- 11:00–12:00 **Alexei Tsvelik** (Brookhaven National Laboratory)
Applications of Conformal Field Theory to models of Disorder
- 12:00–1:30 *Lunch (on your own)*
- 1:30–2:30 **André LeClair** (Cornell University)
Renormalization Group for Disordered Dirac Fermions
- 2:30–3:00 *Coffee Break*
- 3:00–4:00 **Hiroshi Ooguri** (California Institute of Technology)
Strings in AdS_3 and the $SL(2,R)$ WZW model
- 4:00–5:00 **Andreas Ludwig** (UCSB)
Localization in Two-Dimensional Random Superconductors: Symmetry Class D and Random Ising Models

Thursday October 18, 2001

- 9:00–9:30 *Continental Breakfast*
- 9:30 *Fractional Quantum Hall Effect*
- 9:30–10:30 **Kareljan Schoutens** (University of Amsterdam)
Quantum Hall States: The Parafermion Connection
- 10:30–11:00 *Coffee Break*
- 11:00–12:00 **Shoucheng Zhang** (Stanford University)
- 12:00–1:30 *Lunch (on your own)*
- 1:30–2:30 **Leonard Susskind** (Stanford University)
Noncommutative Chern Simons Theory and the Quantum Hall System
- 2:30–3:00 *Coffee Break*
- 3:00–4:00 **Zhenghan Wang** (University of Indiana)
Topological Quantum Computation
- 4:00–5:00 *Panel Discussion*
- 5:00–6:00 *Break*
- 6:00–12:00 *Dinner (Hosted by IPAM)*

Friday October 19, 2001

- 9:00–9:30 *Continental Breakfast*
- 9:30 *Topological Properties of Anyons*
- 9:30–10:30 **Michael Freedman** (Microsoft Research)
- 10:30–11:00 *Coffee Break*
- 11:00–12:00 **Matthew Fisher** (UCSB/Institute for Theoretical Physics)
Ring Exchange and Fractionalization in 2d strongly correlated systems
- 12:00–12:15 *Closing Remarks*

