

## Workshop I: Random Shapes, Representation Theory, and Conformal Field Theory

### Monday March 26, 2007

- 8:00–9:00 *Check-In/Light Breakfast (Hosted by IPAM)*
- 9:00–9:10 *Welcome and Opening Remarks*
- 9:10–9:50 **Gregory Lawler** (University of Chicago)  
*Partition Functions and SLE*
- 10:00–10:30 *Break*
- 10:30–11:20 **Ilya Gruzberg** (University of Chicago)  
*Harmonic measure of critical curves and conformal field theory*
- 11:30–12:20 **Kari Astala** (University of Helsinki)  
*Random quasiconformal mappings*
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **A. Middleton** (Syracuse University)  
*The Geometry of Spin Glasses*
- 3:30–4:00 *Break*
- 4:00–4:50 **Scott Sheffield** (New York University)
- 5:00–6:30 *Reception (Location: IPAM Lobby)*

### Tuesday March 27, 2007

- 8:00–9:00 *Breakfast (Hosted by IPAM)*
- 9:00–9:50 **Denis Bernard** (École Normale Supérieure)  
*SLE in 2d Turbulent systems*
- 10:00–10:30 *Break*

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- 10:30–11:20 **Yair Bartal** (Hebrew University)  
*Advances in Metric Embedding Theory*
- 11:30–12:20 **Hubert Saleur** (Commissariat à l'Énergie Atomique (CEA) - Centre d'Études Nucléaires de Saclay (CENS))  
*Some geometrical problems related with non compact conformal field theories"*
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **Steffen Rohde** (University of Washington)  
*Some properties of the Loewner equation*
- 3:30–4:00 *Break*
- 4:00–4:50 **Lincoln Chayes** (University of California, Los Angeles (UCLA))

### Wednesday March 28, 2007

- 8:00–9:00 *Breakfast (Hosted by IPAM)*
- 9:00–9:50 **Bernard Nienhuis** (Universiteit van Amsterdam)  
*Universality and scale invariance in static granular matter*
- 10:00–10:30 *Break*
- 10:30–11:20 **David Wilson** (Microsoft Research)
- 11:30–12:20 **Mikhail Sodin** (Tel Aviv University)  
*On the number of nodal domains of random spherical harmonics*
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **Stanislav Smirnov** (Université de Genève)  
*Conformal invariance in the Ising model*
- 3:30–4:00 *Break*
- 4:00–4:50 *Panel Discussion: Discussion Leader: Peter Jones. Panelists: to be selected*

## Thursday March 29, 2007

- 8:00–9:00 *Breakfast (Hosted by IPAM)*
- 9:00–9:50 **Ilya Binder** (University of Toronto)  
*Harmonic measure and rotation: Multifractal Analysis*
- 10:00–10:30 *Break*
- 10:30–11:20 **Dmitry Beliaev** (Princeton University)  
*The title of my talk will be Harmonic measure on random fractals*
- 11:30–12:20 **Jesper Jacobsen** (Université d'Orsay)
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **Nam-Gyu Kang** (Massachusetts Institute of Technology)  
*Makarov's law of the iterated logarithm for SLE*
- 3:30–4:00 *Break*
- 4:00–4:50 **Nicholas Read** (Yale University)

## Friday March 30, 2007

- 8:00–9:00 *Breakfast (Hosted by IPAM)*
- 9:00–10:00 **Krzysztof Burdzy** (University of Washington)  
*A particle representation for the heat equation solution*
- 10:00–10:30 *Break*
- 10:30–11:20 **Pierre LeDoussal** (École Normale Supérieure)  
*interfaces in random media, shocks and field theory*
- 11:30–12:20 **Peter Jones** (Yale University)  
*Laplacian Eigenfunctions and Local Coordinate Systems*
- 12:30–12:00 *Conclusion*

