

The 2009 Berkeley Mini Statistical Mechanics Meeting

January 9th -11th, 2009

Friday, January 9, 2009

5:00pm Registration (Lobby-Tan Hall)
7:30pm First Poster Session - two-minute talks, David Chandler presiding
8:30pm First Poster Session

Saturday, January 10, 2009

7:30am Breakfast
8:45am Introductory Remarks: David Chandler

Saturday Lecture Session I – Discussion Chair: Hans Andersen

9:00am Douglas Durian
Title: "Granular unsteadiness"
9:30am Juan P. Garrahan
Title: "Dynamic order-disorder in structural glass formers"
10:00am Leo Kadanoff
Title: "Schramm - Loener evolution & stat mech"

10:30am - 10:45am Coffee Break

Saturday Lecture Session II – Discussion Chair: George Oster

10:45am David Lubensky
Title: "The R8 race: Choosing photoreceptor cells in the developing fruit fly eye"
11:15am Ben Simons
Title: "Mechanisms of tissue maintenance: A laboratory for statistical physics"
11:45am Arup Chakraborty
Title: "Frustration results in an antigen-specific T cell repertoire"

12:30 - 1:30pm Luncheon, 775 Tan Hall

Saturday Lecture Session III – Discussion Chair: Austen Angell

2:00pm Lyderic Bocquet
Title: "Spatial cooperativity in the rheology of soft glasses: Theory and experiments"
2:30pm Michael Cates
Title: "Rheological constitutive equations for glasses under flow: Steps towards a statistical-mechanical theory of plasticity"
3:00pm Tom Lubensky
Title: "Phonons and Elasticity in Periodic Nearly Isostatic Media."

3:30 - 3:45pm Coffee Break

Saturday Lecture Session IV – Discussion Chair: Ashvin Vishwanath

- 3:45pm Subir Sachdev
 Title: "Quantum field theories for antiferromagnets and superconductors, and for black holes"
- 4:15pm Radu Coldea
 Title: "Quantum phase transition in an Ising magnet in transverse field"
- 4:45pm Guilio Biroli
 Title: "Quantum jamming and the super-glass phase"
- 6:00pm Second Poster Session - two-minute talks, David Chandler presiding
- 7:00pm Second Poster Session

Sunday, January 13, 2007

8:00am Breakfast

Sunday Lecture Session I – Discussion Chair: John Weeks

- 9:00am Monica Olvera de la Cruz
 Title: "Ionic Assemblies: Symmetries and functions"
- 9:30am Erik Luijten
 Title: "Complex fluids with dipolar interactions: Phase behavior and self-assembly"
- 10:00am Marjolein Dijkstra
 Title: "Colloidal self-assembly: Predicting and designing new structures"

10:30 - 11:00am Coffee Break

Sunday Lecture Session II – Discussion Chair: Attila Szabo

- 11:00am Christopher Jarzynski
 Title: "Avoid getting trapped in a rough neighborhood: how nonequilibrium trajectories can improve equilibrium sampling"
- 11:30am Gavin Crooks
 Title: "Length of time's arrow"

12:00pm Closing Remarks: David Chandler

Dim Sum Party Following, 775 Tan Hall