

The 2015 Berkeley Mini Statistical Mechanics Meeting

January 9 – 11, 2015

Friday, January 9, 2015

2:00 pm	Registration & Check-In	Bixby Commons
4:00 pm	Poster Session I - Two-minute Talks David Chandler Presiding	120 Latimer Hall
5:00 pm	Poster Session I - Discussions & Light Reception	Tan Hall Lobby

Saturday, January 10, 2015

7:45 am	Breakfast	Tan Hall Lobby
8:45 am	Introductory Remarks David Chandler	120 Latimer Hall

Saturday Lecture Session I – Discussion chair: Robert Jack **120 Latimer Hall**

9:00 am	Fabio Martinelli, University of Roma Tre <i>“The influence of dimension on the relaxation process of East-like models: rigorous results”</i>	
9:30 am	Matthieu Wyart, New York University <i>“The memory of sand”</i>	
10:00 am	Fred MacKintosh, Vrije Universiteit <i>“Non-equilibrium fluctuations and phase transitions in cells and active gels”</i>	
10:30 am	Coffee Break	Tan Hall Lobby

Saturday Lecture Session II – Discussion chair: Paul Goldbart **120 Latimer Hall**

10:45 am	Michael Hagan, Brandeis University <i>“A new order in active nematics”</i>	
11:15 am	M. Cristina Marchetti, Syracuse University <i>“Dynamics and topology of active nematics”</i>	
11:45 am	Sriram Ramaswamy, TIFR Centre for Interdisciplinary Sciences <i>“Granular flocks”</i>	
12:15 pm	Lunch	775 Tan Hall

Saturday Lecture Session III – Discussion chair: Phill Geissler**120 Latimer Hall**

2:00 pm	Julien Tailleur, University of Paris Diderot - CNRS “A Generic Framework for the Transition to Collective Motion”
2:30 pm	Takahiro Sagawa, The University of Tokyo “Fluctuation Theorem for Information Processing”
3:00 pm	Roger Loring, Cornell University “Old quantum theory meets new measurements: semiclassical paths for multidimensional vibrational spectroscopy”
3:30 pm	Coffee Break Tan Hall Lobby

Saturday Lecture Session IV – Discussion chair: Martin Head-Gordon**120 Latimer Hall**

3:45 pm	Ali Alavi, Max Planck Institute for Solid State Research “A quantum Monte Carlo approach to the full CI problem”
4:15 pm	Garnet Chan, Princeton University “Quantum chemistry in the condensed phase”
4:45 pm	Steven R. White, University of California, Irvine “Minimally entangled typical thermal states”
5:15 pm	Coffee Break
5:30 pm	Poster Session II – Two minute talks 120 Latimer Hall
6:30 pm	Poster Session II – Discussions & Light Reception Tan Hall Lobby

Sunday, January 11, 2015

7:45 am	Breakfast Tan Hall Lobby
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Sunday Lecture Session I – Discussion chair: David Limmer**120 Latimer Hall**

9:00 am	Christopher Jarzynski, University of Maryland “A method to compute absolute free energies of crystalline solids”
9:30 am	Osamu Mishima, National Institute for Materials Science “Volume of supercooled water under pressure”
10:00 am	Valeria Molinero, University of Utah “Liquid crystals from spherical particles”

10:30 am Coffee Break Tan Hall Lobby

Sunday Lecture Session II – Discussion chair: Oskar Hallatschek	120 Latimer Hall
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| 10:45 am | Massimo Vergassola, University of California, San Diego
<i>“Beating turbulence to find a mate.”</i> | |
| 11:15 am | Frédéric van Wijland, University of Paris Diderot
<i>“Nonequilibrium dissipation in living oocytes”</i> | |
| 11:45 am | Jeremy England, Massachusetts Institute of Technology
<i>“Boltzmann's Dog and Darwin's Finch: The statistical thermodynamics of self-replication and evolutionary adaptation”</i> | |
| 12:15 pm | Closing Remarks: David Chandler | |
| 12:30 pm | Dim Sum Party | 775 Tan Hall |