The 2014 Berkeley Mini Statistical Mechanics Meeting January 10 – 12, 2014

Friday, January 10, 2014				
5:00 pm	Registration & Check-In	Bixby Commons		
7:30 pm	Poster Session I - Two-minute Talks David Chandler Presiding	120 Latimer Hall		
8:30 pm	Poster Session I - Discussions & Light Reception	Tan Hall Lobby		
Saturday, Ja	nnuary 11, 2014			
7:45 am	Breakfast	Tan Hall Lobby		
8:45 am	Introductory Remarks David Chandler	120 Latimer Hall		
Saturday Le	ecture Session I – Discussion chair: David Limmer	120 Latimer Hall		
9:00 am	Thomas Loerting, University of Innsbruck "Crystallization and glass transition in amorphous ice"			
9:30 am	Livia Eleonora Bove, CNRS – Université Pierre & Marie Curie "Exploring the phase diagram of salty water: nano-phase segregation, polyamorphism and salty-ice crystallization"			
10:00 am	David Pine, New York University "Non-equilibrium phase behavior and scaling in suspensions of periodically sheared fibers"			
10:30 am	Coffee Break	Tan Hall Lobby		
Saturday Le	ecture Session II – Discussion chair: Tuomas Knowles	120 Latimer Hall		
10:45 am	Jasna Brujic, New York University "The architecture of biomimetic emulsions"			
11:15 am	Cecilia Clementi, Rice University			

11:45 am Daniel S. Fisher, Stanford University

dynamics"

"Statistics of neutral genomic variation driven by hitchhiking"

"Rapid exploration of configuration space with diffusion-map-directed molecular

12:15 pm	Lunch	775 Tan Hall		
Saturday Lecture Session III – Discussion chair: Rob Jack 120 Latimer Hall				
2:00 pm	Giulio Biroli, Institut de Physique Théorique, CEA Saclay "Self-induced disorder, avalanches and dynamical facilitation in ga	lass-forming liquids"		
2:30 pm	Mark Ediger, University of Wisconsin-Madison "Highly stable organic glasses"			
3:00 pm	Ludovic Berthier, University of Montpelier 2 & CNRS "Nonequilibrium glass transitions in driven and active matter"			
3:30 pm	Coffee Break	Tan Hall Lobby		
Saturday Le	cture Session IV – Discussion chair: Christopher Jarzynski	120 Latimer Hall		
3:45 pm	Eran Rabani, Tel Aviv University "Self-averaging Stochastic Kohn-Sham density functional theory"			
4:15 pm	Massimiliano Esposito, University of Luxembourg "Stochastic thermodynamics and coarse graining"			
4:45 pm	John Cardy, University of Oxford "Stresses and strains in the Ising and other models"			
5:30 pm	Break			
6:30 pm	Poster Session II – Two minute talks	120 Latimer Hall		
7:30 pm	Poster Session II- Discussions & Light Reception	Tan Hall Lobby		
Sunday, January 12, 2014				
8:00 am	Breakfast	Tan Hall Lobby		
Sunday Lecture Session I – Discussion chair: Steve Whitelam 120 Latimer Hall				
9:00 am	Michael Engel, University of Michigan "Beyond close-packing: complex order with simple models"			
9:30 am	Salvatore Torquato, Princeton University "Hyperuniform disordered materials: A new state of matter"			
10:00 am	Raissa D'Souza, University of California, Davis "Statistical mechanics of percolation and cascades on networks"			

10:30 am Coffee Break Tan Hall Lobby

Sunday Lecture Session II – Discussion chair: Michael Hagan 120 Latimer Hall			
10:45 am	Ramin Golestanian, University of Oxford		
	"Making nonequilibrium matter with active colloids"		
11:15 am	Gijsje Koenderink, FOM Institute AMOLF		
11.10 um	"Self-organization of active soft matter"		
11:45 am	John Toner, University of Oregon		
	"Rice, locusts, and excitonic Bose-Einstein condensation: A hydpolar active smectics"	drodynamic theory of	
12:15 pm	Closing Remarks: David Chandler		
12:30 pm	Dim Sum Party	775 Tan Hall	

Mini after the Mini: Glasses and Other Far From Equilibrium Phenomena

9:00 AM	David Chandler	Cooling Protocols Connected to the s -Ensemble
9:15 AM	Rob Jack	Investigating Amorphous Order in Stable Glasses by
		Random Pinning
9:30 AM	Juan P. Garrahan	Overlap Transitions, Defects, and the Glass Transition
9:45 AM	Ludovic Bertheir	Configurational Entropy in Supercooled Liquids
$10:00~\mathrm{AM}$	David Limmer	Length and Time Scales of Water's Glass Transition
$10:15~\mathrm{AM}$	Grzegorz Szamel	Emergence of Elasticity in Glass-Forming Liquids:
		What Can We Learn from the Spatial Correlations of
		Particle Displacements
10:30 AM	Yang Zhang	Odd-even Effects of Glass Transition Temperature with
		a Network-forming Ionic Glass
$10:45~\mathrm{AM}$	Francesco Zamponi	Critical Exponents of the Jamming Transition
11:00 AM	Patrick Charbonneau	Hopping in a Simple Glass Model
11:15 AM	Short break to get coffee	
11:25 AM	Nicolas Giovambattista	Pressure and Heating-Induced Glass-Glass Transforma-
		tions in Computer Simulations of Water
11:40 PM	Eric Vanden-Eijnden	Flows in Complex Networks: Theory, Algorithms, and
		Application to Lennard-Jones Cluster Rearrangement
11:55 PM	Mike Hagan	Patterns, Structures, and Dynamics in Active Colloidal
		Systems
12:10 PM	Steve Whitelam	Self-Assembly at a Nonequilibrium Critical Point
12:25 PM	Todd Gingrich	Dynamic Phase Transitions in Simple Driven Kinetic
		Networks