Berkeley Mini Statistical Mechanics Meeting
Friday, Jan. 9, 2015 – Poster Session I

#	Name	Institution	Title of Poster
1	Kelsey Schuster	UC Berkeley	A lattice model to study grain formation and dynamics in polycrystalline materials
2	Joseph Harder	Columbia University	Activity induced collapse and re-expansion of rigid polymers
3	Brenda Rubenstein	Lawrence Livermore National Laboratory	Auxiliary field quantum monte carlo for molecules and solids
4	Connie Wang	California Institute of Technology	Comparison of lithium battery charging protocols to mitigate dendrite formation
5	Asaph Widmer-Cooper	University of Sydney	Defect-mediated relaxation in the random tiling phase of a binary mixture: birth, death and mobility of an atomic zipper
6	James Dama	University of Chicago	Design of metadynamics-hyperdynamics hybrid methods for calculating dynamical rates
7	Masaharu Isobe	Nagoya Institute of Technology	Dynamic facilitation in binary hard disk systems
8	Alexander Hudson	UC Berkeley	Dynamics of inter-subunit contacts in the bacterial ribosome
9	Zhiyue Lu	University of Maryland	Engineering maxwell's demon
10	Greg Medders	UC San Diego	First principles based approaches to modeling vibrational spectroscopy
11	Rodrigo Freitas	UC Berkeley	Free energy of steps on the surface of faceted solids
12	Dibyendu Mandal	UC Berkeley	Free energy reconstruction in absence of detailed balance
13	Vasily Bulatov	Lawrence Livermore National Laboratory	Kinetic trapping no more: exact first-passage KMC on Markov webs
14	Brett Savoie	California Institute of Technology	Loosening the grip: Rapid anion conduction in PEO motivates Lewis acid polymers
15	Amish Patel	University of Pennsylvania	Wetting-dewetting transitions on nanotextured surfaces: Implications for Superhydrophobicity and phase change heat transfer
16	Dayton Thorpe	UC Berkeley	Order parameters for ion solvation
17	Milo Lin	UC Berkeley	Percolation of branched actin self-assembly
18	Joonho Lee	California Institute of Technology	A simple, exact embedded mean-field theory
19	Madhu Advani	Stanford University	The Statistical mechanics of high dimensional inference
20	Grant Rotskoff	UC Berkeley	Thermodynamic geometry and optimal control of the 2D Ising model
21	Erik Thiede	University of Chicago	Umbrella sampling: Insights from numerical analysis
22	Kathryn Deeg	UC Berkeley	Understanding bulk properties of metal-organic frameworks using lattice models
23	Omar Valsson	ETH Zurich and USI Lugano	Variational approach to enhanced sampling and free energy calculations

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Saturday, Jan. 10, 2015 – Poster Session II

#	Name	Institution	Title of Poster
1	Thomas Michaels	University of Cambridge	A unified view of protein filament formation
2	Sucheol Shin	MIT	Aqueous interfacial structure imposed by hydrogen bonding network
3	Yang Zhang	University of Illinois at Urbana-Champaign	Atomic-scale dynamics of a model glass-forming metallic liquid
4	Kranthi Mandadapu	UC Berkeley	The orderphobic effect: A fundamental force related to membrane's order-disorder transition that may govern protein self-assembly in lipid membranes
5	Shachi Katira	UC Berkeley	Characterizing the order-disorder transition in model lipid bilayers
6	Robert Baldock	University of Cambridge	Complete phase diagrams with nested sampling
7	Ranjan Mannige	Lawrence Berkeley National Laboratory	Design criteria of novel protein-mimetic polymers from simulation
8	Suri Vaikuntanathan	University of Chicago	Design principles for non equilibrium self assembly
9	Todd Gingrich	UC Berkeley	Efficiency and large deviations in stochastic heat engines
10	Nadine Schwierz-Neumann	UC Berkeley	Fibril growth of A-beta-40-Peptides: Thermodynamic and kinetic aspects
11	John Haberstroh	UC Berkeley	Fluctuations of confined water in the mutated tobacco mosaic virus light harvesting scaffold
12	Takuma Akimoto	Keio University	Langevin equation with fluctuating diffusivity
13	Jason Wagoner	Stony Brook University	Steady state algorithms in multiscale modeling
14	Nils Zimmermann	UC Santa Barbara	Homogenous nucleation of sodium chloride from aqueous solutions: on mechanisms and rates by atomistic simulations
15	Clarion Tung	Columbia University	Microphase separation of polymer brushes on spheroids
16	Katie Klymko	UC Berkeley	Pattern formation in driven systems
17	Yuichi Kawabata	Kyushu University	Preferential interaction in hard-sphere mixture
18	Maicol Ochoa	UC San Diego	Nonequilibrium thermodynamics of a driven quantum level strongly coupled to reservoirs
19	David Limmer	Princeton University	Structure and stability of grain boundaries in platinum nanocrystals.
20	Ramin Khajeh	UC Berkeley	Quest for non-gaussian dynamics in energy gap fluctuations of FMO chromophores
21	Carl Schreck	UC Berkeley	Thermalized connectivity networks of jammed packings close to isostaticity
22	Clemens Buss	Max Planck Institute for Dynamics and Self-Organization	The effect of finite temperature on the jamming transition

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#	Name	Institution	Title of Poster
23	Jaffar Hasnain	UC Berkeley	Structure and dynamics of active patch systems
24	Mark Fornace	California Institute of Technology	Speeding up DFT with embedded mean-field theory (EMFT)
25	Michael Webb	California Institute of Technology	TBA