

Berkeley Mini Statistical Mechanics Meeting
Friday, Jan. 8, 2016 - Poster Session I

#	Name	Institution	Title of poster
1	Ahn, Surl-Hee (Shirley)	Stanford University	Discovery of metastable and transition states using the concurrent adaptive sampling method
2	Antoniou, Dimitri	University of Arizona	Phase space bottlenecks and committors
3	Braun, Efrem	UC Berkeley	Bulk-like vapor-liquid coexistence in microporous isorecticular metal-organic frameworks
4	Dixit, Purushottam	Columbia University	Exploring heterogeneity in cell populations
5	Edison, John	Lawrence Berkeley National Laboratory	Critical casimir forces and colloidal phase transitions in a near-critical solvent: A simple model reveals a rich phase diagram
6	Fusco, Diana	UC Berkeley	Standing variation in two-dimensional microbial colonies
7	Ge, Hao	Peking University	Stochastic phenotype transition of a single cell in an intermediate region of gene state switching
8	Gingrich, Todd	MIT	Dissipation bounds all steady-state current fluctuations
9	Hocky, Glen	University of Chicago	Probing the mechanism of profilin-catalyzed nucleotide exchange in actin using metabasin metadynamics
10	Keller, Sarah L.	University of Washington	Co-localization of lipid domains across the bilayer of a lipid membrane is explained via measurement of a strong coupling parameter between the membrane leaflets.
11	Kim, Soree	Seoul National University	Heterogeneous dynamics and its length scale in simple ionic liquid models
12	Lake, Peter	Colorado State University	Improving non-polar effects in implicit solvent models: Towards an efficient model for molecular aggregation
13	Liu, Jimmy	UC Santa Barbara	Phase field mapping of field-theoretic simulations
14	Marsland, Robert	MIT	Far-from-equilibrium distribution from near-steady-state work fluctuations

15	Oh, Inrok	Seoul National University	Unexpected behavior of depletion attraction at a fluffy surface
16	Patel, Amish	University of Pennsylvania	Spontaneous recovery of superhydrophobicity of nanotextured surfaces
17	Rosnik, Andreana	UC Berkeley	Towards understanding the effect of phosphorylation-dependent energetic changes on protein organization in thylakoid membranes
18	Rotskoff, Grant	UC Berkeley	An ensemble approach to optimal control: Sampling the space of low-dissipation nonequilibrium protocols
19	Schreck, Carl	UC Berkeley	Self-driven jamming of growing microbial populations
20	Schuster, Kelsey	UC Berkeley	Arrow-Potts: A model for studying competing dynamics of coarsening and vitrification
21	Schwierz-Neumann, Nadine	UC Berkeley	Dynamics of amyloid-fibril growth from atomistic MD simulations: Kinetic trapping and reduced water mobility in the locking step
22	Smith, David	UC Santa Barbara	Can simple theories capture sequence-dependent effects in peptide homodimerization?
23	Strong, Steven	University of Colorado Boulder	Water passage through atomically thin membranes: The effects of hydrophobicity
24	Thorpe, Dayton	UC Berkeley	The Hofmeister series: Numerics and theory
25	Thyagarajan, Raghuram	University of Massachusetts Amherst	Coarse-grained modeling of the phase behavior of thermodynamically small clusters of colloidal particles
26	Tubman, Norman	Lawrence Berkeley National Laboratory	Charge density waves in disordered media circumventing the Imry-Ma argument
27	Zimmermann, Nils	Lawrence Berkeley National Laboratory	NaCl nucleation from aqueous solution: attachment kinetics and rates via seeded simulations
28	Boyd, Alec	UC Davis	Maxwellian demon dynamics: Deterministic chaos in physical information processing

Berkeley Mini Statistical Mechanics Meeting
 Saturday, Jan. 9, 2016 - Poster Session II

#	Name	Institution	Title of poster
1	Bulnes Cuetara, Gregory	UC San Diego	Stochastic thermodynamics of rapidly driven quantum systems
2	Chu-Jon, Carlos	University of Utah	Guiding nucleation and growth of metal organic frameworks.
3	Chvykov, Pavel	MIT	Reduction to equilibrium using polymer ensemble
4	Cox, Stephen	UC Berkeley	Gaussian statistics lurking behind ion solvation
5	Ding, Feizhi	California Institute of Technology	Time-dependent embedded mean-field theory for treating excited states in complex chemical systems
6	Freedman, Simon	University of Chicago	Investigating mechanical phases in active polymer networks via coarse grained molecular dynamics
7	Hansen, Scott	UC Berkeley	Geometry sensing based on stochastic composition fluctuations in a kinase-phosphatase competitive reaction
8	Horowitz, Jordan	MIT	Chemical Langevin equations have inconsistent thermodynamics fluctuations
9	Huang, William	UC Berkeley	Protein gelation phase transitions: the emergence of hidden kinetic species, and its cellular signaling consequence
10	Hudson, Alexander	UC Berkeley	Non-equilibrium properties of a model atomistic glass former
11	Katira, Shachi	UC Berkeley	Pre-transition effects in lipid bilayers
12	Klymko, Katie	UC Berkeley	Geometric origin and macroscopic implications of lane formation in mixtures of oppositely-driven particles
13	Mandadapu, Kranthi	UC Berkeley	Torque generation in the bacterial flagellar motor
14	Raz, Oren	University of Maryland	Power and efficiency of cyclic heat engine

15	Read, Elizabeth	UC Irvine	Landscapes for cell decision-making from weighted ensemble sampling
16	Riechers, Paul	UC Davis	Transitions atop NESSs: Excess fluctuation theorems and exact results for HMMs
17	Sanyal, Tanmoy	UC Santa Barbara	Building robust coarse grained models of solvation using local density dependent interactions with the relative entropy
18	Sarkar, Sumantra	MIT	Granular materials in the flatland
19	Savoie, Brett	California Institute of Technology	Better force-fields for better electrolytes: Rapidly extendable force-fields for materials discovery
20	Simine, Lena	Rice University	Chromophores in P3HT: Surprisingly less twisted when hot.
21	Tung, Clarion	Columbia University	Phase behavior of microphase-separating active spheres and dumbbells
22	Vaikuntanathan, Suriyanarayanan	University of Chicago	Topologically protected modes in non-equilibrium systems
23	Van Lehn, Reid	California Institute of Technology	Regulation of multispinning membrane protein topology by post-translational annealing
24	Wang, Connie	California Institute of Technology	Dynamics of membrane protein integration via a protein conducting channel
25	Webb, Michael	California Institute of Technology	Chemically specific dynamic bond percolation model for ion transport in polymer electrolytes
26	Welsch, Ralph	California Institute of Technology	Non-equilibrium ring-polymer molecular dynamics
27	Widmer-Cooper, Asaph	University of Sydney	Ligand-mediated interactions between nanoscale surfaces depend sensitively and non-linearly on temperature, facet dimensions, and ligand coverage
28	Zhang, Yang	University of Illinois Urbana Champaign	Energy landscape statistics and coarsening in Liquids – A relaxation mode analysis