

Berkeley Statistical Mechanics Meeting
Friday, Jan. 12, 2018 – Poster Session I

#	Name	Institution	Title of poster
1	Braun, Efreem	UC Berkeley	Towards an experimentally-accessible library of carbon schwarzites via zeolite-templating
2	Bukov, Marin	UC Berkeley	Reinforcement learning in glassy phases of (quantum) control
3	Dou, Wenjie	University of Pennsylvania	Electronic friction near metal surfaces
4	Edison, John	Lawrence Berkeley National Laboratory	Secondary structure of peptoids in bilayer nanosheets
5	Fan, Zhaochuan	University of Utah	Understanding nanocrystal self-assembly using coarse-grained simulations
6	Fodor, Etienne	University of Cambridge	Collisional efficiency sets the kinetics and structure of active fluids
7	Frechette, Layne	UC Berkeley	The statistical mechanics of ion exchange in nanocrystals
8	Gao, Chloe	UC Berkeley	Transport coefficients from large deviation functions
9	Graham, Chloe	University of Western Ontario	Dynamics interactions of calcium bicarbonate complexes in water clusters
10	Grand Pre, Trevor	UC Berkeley	Transport and beyond in active matter
11	Hasnain, Jaffar	UC Berkeley	Free energetics of membrane-protein concentration at vesicle interfaces
12	Karnes, John	UC Santa Cruz	Mixing oil and water: The thermodynamics and mechanism of water transferring into oil
13	Klymko, Katie	UC Berkeley	Statistical mechanics of transport processes in active fluids
14	Large, Steven	Simon Fraser University	Stochastic control in microscopic nonequilibrium systems
15	Leitold, Christian	UC Santa Barbara	Simulating the Finkelstein reaction in solution

16	Li, Zhujie	UPMC	Water shuttling mechanisms in water-in-salt electrolytes
17	Limaye, Aditya	D. E. Shaw Research	Kirkwood-Buff integrals of solutions: Data for force field development and validation
18	Maibaum, Lutz	University of Washington	Free energy calculations of membrane translocation: Finding, overcoming, and learning from convergence bottlenecks
19	Montoya Castillo, Andres	Stanford University	On the rigorous continuous mapping of fermions
20	Moritz, Clemens	University of Vienna	Fast and slow dynamics in rare events - The disk-to-slab transition in the 2d Ising model
21	Obliger, Amael	UC Berkeley	Large anion interdiffusion in lead halides perovskites
22	Odendahl, Nathan	UC Berkeley	Connecting aqueous ion surface adsorption to the polar character of interfacial water
23	Rosnik, Andreana	UC Berkeley	Phase behavior of a lattice model for thylakoid membrane stacks
24	Rotskoff, Grant	New York University	Estimating the density of states with nonequilibrium trajectories
25	Ruiz Pestana, Luis	Lawrence Berkeley National Laboratory	Nanoconfinement induced self-organization
26	Sahu, Amaresh	UC Berkeley	The irreversible thermodynamics of curved lipid membranes: Theory and applications
27	Wagoner, Jason	Stony Brook University	Suppressing fluctuations in the coordinated actions of myosin II motors
28	Wayment-Steele, Hannah	Stanford University	Variational encoding of complex dynamics
29	Yu, QinQin	UC Berkeley	Structural features in bacterial biofilms and their influence on evolutionary dynamics

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Saturday, Jan. 13, 2018 – Poster Session II

#	Name	Institution	Title of poster
1	Chen, Leanne	California Institute of Technology	Exploring metal-doped graphene for CO ₂ electroreduction with quantum embedding methods
2	Cheng, Lixue	California Institute of Technology	Deep learning & MD simulations to parameterize nucleic acid thermodynamic & kinetic models
3	Damasceno, Pablo	UC San Francisco	Computer-driven DNA-origami self-assembly
4	Ding, Feizhi	California Institute of Technology	Hydrogen reactive scattering on graphene: An ab initio molecular dynamics study using embedded mean-field theory
5	Fu, Ray	UC Berkeley	Extensions to Grote-Hynes theory: Movement down a parabolic barrier
6	Grünwald, Michael	University of Utah	Kinetics and thermodynamics of spontaneous chiral resolution
7	Jacobson, Daniel	California Institute of Technology	Mapping the structure-conductivity landscape of polymer electrolytes
8	Karandur, Deepti	UC Berkeley	Mechanism of CaMKII oligomer disassembly
9	Katira, Shachi	UC Berkeley	Solvation and interfaces in space--time: Pre-transition effects in trajectory space
10	Kim, Jeongmin	California Institute of Technology	Electron transfer and ion solvation at battery interfaces between a metallic anode and polymer electrolytes
11	Lee, Jaehak	Seoul National University	New ensemble of trajectories and dynamical phase transitions in various lattice models
12	Lee, Sebastian	California Institute of Technology	Towards black box projection-based embedding
13	Magdau, Ioan	California Institute of Technology	2D THz-THz-Raman spectroscopy in bromoform
14	Molina, Anton	Stanford University	Macroscopic microstates: Programming and visualizing driven self-organization
15	Morawietz, Tobias	Stanford University	The interplay of structure and dynamics in the Raman spectrum of liquid water over the full frequency and temperature range

16	Niesen, Michiel	California Institute of Technology	Forces on nascent polypeptides during membrane insertion and translocation via the Sec translocon
17	Oh, Myong In	University of Western Ontario	Stability of a transient protein complex in a charged aqueous droplet with variable pH
18	Preisler, Zdenek	Lawrence Berkeley National Laboratory	Irregular model DNA particles self-assemble into a regular structure
19	Remsing, Richard	Temple University	Statistical mechanical modeling of quasiparticles in condensed phases
20	Rogers, Julia	UC Berkeley	Investigating Lennard-Jones cluster rearrangements: Towards the development of enhanced transition path sampling methods
21	Rosa, Jorge	California Institute of Technology	Path-accelerated molecular dynamics: Parallelizing dynamics in time
22	Satish, Pratima	UC Berkeley	Mapping out the phase diagram of ligands on nanoparticles: Prospects for self-assembly driven by phase transitions
23	Schile, Addison	UC Berkeley	Dissipation controlled quantum yield through conical intersections
24	Tao, Xuecheng	California Institute of Technology	Path-integral isomorphic hamiltonian: Including nuclear quantum effects in non-adiabatic dynamics
25	Thiede, Erik	University of Chicago	Dynamical Galerkin approximation: A new framework for estimating dynamical statistics from trajectory data
26	Schreck, Carl	UC Berkeley	Collective motion weakens selective forces in crowded cellular populations
27	Vaikuntanathan, Suriyanarayanan	University of Chicago	Dissipation induced transitions in elastic membranes
28	Vani, Bodhi	University of Chicago	Investigating the dissociation of the Insulin Dimer via sampling techniques
12	Welborn, Matthew	California Institute of Technology	Towards black box projection-based embedding
29	Whitelam, Steve	Lawrence Berkeley National Laboratory	Large deviations of active matter
30	Zimmer, Matthew	California Institute of Technology	Mechanism of force induced restarting of protein synthesis in SecM-stalled ribosomes