

Berkeley Statistical Mechanics Meeting – Poster Session I
Friday, January 12, 2024

#	Name	Institution	Title of poster
1	Frechette, Layne	Brandeis University	Modeling Active Composites with Spatiotemporally Correlated Noise
2	Rogers, Julia	Columbia University	Combining a protein language model with a simple statistical mechanical model to predict protein-peptide interaction affinities
3	Biddle, John	Holy Cross College	Cyclic trajectories in Markov processes far from equilibrium: preserved reversal symmetries and locally determined properties
4	Shen, Yizhi	Lawrence Berkeley National Laboratory	Efficient Quantum Many-Body Traces from Reconfigurable Ising Spins
5	Coello, Leonardo	UC Berkeley	Theory of Interfacial Electron Transfer across a Model Twisted Bilayer Graphene Electrodes
6	Liu, Tao	McGill University	ΔG_{zip} : evaluating free energy of binding using lossless compression
7	Hasyim, Muhammad R.	New York University	Emergent Facilitation and Glassy Dynamics in Supercooled Liquids
8	Casiulis, Mathias	New York University	Spectrally-shaped Disorder for Material Design and Integration
9	Zhang, Guanming	New York University	Bridging Biased Random Organization to Mini-batch Gradient Descent
10	Remsing, Rick	Rutgers	Plastic Crystals: From Molecular to Electronic Disorder
11	Chennakesavalu, Shriram	Stanford University	Data-efficient generation of protein conformational ensembles with invertible coarse-graining
12	Manikandan, Sreekanth K	Stanford University	Adaptive nonequilibrium design of actin-based metamaterials: fundamental and practical limits of control
13	Klinger, Jérémie	Stanford University	First passage observables of jump processes : reconciling discrete time series and continuous models
14	Smirnov, Aleksandr	UC Berkeley	Imaging and Manipulating Colloids in Complex Fluids with Electron Microscopy
15	Hall, Johanna	UC Berkeley	Simulating Entropy Production in the Photosystem II Supercomplex

16	Langford, Luke	UC Berkeley	The Mechanics of Classical Nucleation and the Surface Tensions of Active Matter
17	Fay, Thomas	UC Berkeley	Unraveling the mechanisms of triplet state formation in a heavy-atom free photosensitizer
18	Anderson, Michelle	UC Berkeley	The Committor in Quantum Systems: Transition States, Mechanisms and Control
19	Moon, Seokjin	UC Berkeley	Reactive uptake of N ₂ O ₅ at the interface of sea spray aerosol
20	Chen, Songela	UC Berkeley	Stochastic thermodynamic constraints on logical circuits
21	Slivka, Joseph	UC Berkeley	Kinesin Overcomes Sensitivity to Obstacles by Sidestepping: Implications for sRegulation by MAPs

Berkeley Statistical Mechanics Meeting – Poster Session II
Saturday, January 13, 2024

#	Name	Institution	Title of poster
1	Li, Sherry	Stanford University	Efficient Sampling of Equilibrium Distributions with Energy-Informed, Scalable Diffusion Models
2	Batton, Clay	Stanford University	Microscopic origin of tunable assembly forces in chiral active environments
3	Zhong, Adrienne	UC Berkeley	Time-Asymmetric Fluctuation Theorem and Efficient Free Energy Estimation
4	Deshpande, Alhad	UC Berkeley	The Flux Hypothesis for Odd Transport Processes
5	Christian, Tanner	UC Berkeley	Microsecond fluctuations of a metastable liquid of nanocrystals via X-ray photon correlation spectroscopy
6	Davis, John and Wall, Vivian	UC Berkeley	Using optical illumination to promote non-equilibrium self-assembly of nanocrystal superlattices
7	Waechtler, Christopher	UC Berkeley	Topological quantum synchronization of fractionalized spins
8	Rana, Rohit	UC Berkeley	Renormalization of Exciton Binding by Polar Phonons in 2D Perovskites
9	Piñeros, William	University of Luxembourg	Templated dynamical phases in biased ensembles of pulsating active matter
10	Rosa-Raices, Jorge	UC Berkeley	Variational time reversal for nonequilibrium free energy estimation
11	Kumar, Rajat	University of Utah	Interplay between liquid-liquid transition and crystallization in supercooled water
12	DuBay, Kateri	University of Virginia	Self-assembly of particles with time-oscillatory interactions at the fast oscillation limit.
13	Oaks-Leaf, Sam	UC Berkeley	An Elastic Ising Model Approach to Hydrogen Absorption in Palladium Nanocrystals
14	Singh, Aditya	UC Berkeley	Reactive Path Ensembles Within Nonequilibrium Steady States
15	Heller, Eric	UC Berkeley	Instanton rate theory of transitions far from equilibrium

16	Polley, Kritanjan	UC Berkeley	Absorption at liquid-vapor interfaces
17	Dodin, Amr	UC Berkeley	Ion-Pairing Near Liquid Interfaces: A Statistical Field Theory Approach
18	Kadhem, Hugh	UC Berkeley	Stable Automatically-Differentiable Computation of BSS Determinants
19	Evans, Daniel	UC Berkeley	Theory of Nonequilibrium Symmetry-Breaking Coexistence and Active Crystallization
20	Strand, Nils	University of Chicago	From high-dimensional committors to reactive insights
21	Pert, Emmit	Stanford University	Thermodynamic Driving Forces of Coacervate Nanoparticle Assembly
22	Cohen, Liron	Lawrence Berkeley National Laboratory	Addition of Alcohols Facilitate Chlorine Solvation in Squalene Liquid