

The 2019 Berkeley Statistical Mechanics Meeting
January 11 – 13, 2019

Friday, January 11, 2019

2:00 pm	Registration & Check-In	Bixby Commons
4:00 pm	Poster Session I - Two-minute Talks David Limmer Presiding	120 Latimer Hall
5:00 pm	Poster Session I - Discussions & Light Reception	Tan Hall Lobby

Saturday, January 12, 2019

7:45 am	Breakfast	Tan Hall Lobby
8:45 am	Introductory Remarks Phill Geissler	120 Latimer Hall

Saturday Lecture Session I – Discussion chair: Christoph Dellago **120 Latimer Hall**

9:00 am	Jasna Brujic, New York University <i>“Programming colloidal architectures”</i>	
9:30 am	Michael Grünwald, University of Utah <i>“Orientational order in self-assembled nanocrystal superlattices”</i>	
10:00 am	Suri Vaikuntanathan, University of Chicago <i>“Organization and self-assembly far from equilibrium: Dissipation induced transitions in membranes and materials”</i>	
10:30 am	Coffee Break	Tan Hall Lobby

Saturday Lecture Session II – Discussion chair: Margaret Johnson **120 Latimer Hall**

10:45 am	Ariel Amir, Harvard University <i>“From single-cell variability to the population growth”</i>	
11:15 am	Elizabeth Read, University of California, Irvine <i>“Tackling Noisy Dynamics in the Epigenome with Stochastic Modeling and Inference”</i>	
11:45 am	Ilya Levental, University of Texas Health Science Center <i>“The Biophysics of Living Membranes”</i>	
12:15 pm	Lunch	775 Tan Hall

Saturday Lecture Session III – Discussion chair: Robert Jack **120 Latimer Hall**

2:00 pm	Vincenzo Vitelli, University of Chicago <i>“Chiral Active Matter”</i>	
2:30 pm	Dan Needleman, Harvard University <i>“Structure, Mechanics, and Thermodynamics of Mixtures of Microtubules and Molecular Motors”</i>	

3:00 pm **David Sivak, Simon Fraser University**
“Reducing dissipation in far-from-equilibrium biomolecular processes”

3:30 pm **Coffee Break** **Tan Hall Lobby**

Saturday Lecture Session IV – Discussion chair: Todd Gingrich **120 Latimer Hall**

3:45 pm **Abraham Nitzan, University of Pennsylvania**
“Quantum Thermodynamics of non-equilibrium nano-systems”

4:15 pm **Hugo Touchette, Stellenbosch University**
“Large deviations in nonequilibrium processes”

5:00 pm **Poster Session II – Two minute talks** **120 Latimer Hall**

6:00 pm **Poster Session II – Discussions & Light Reception** **Tan Hall Lobby**

Sunday, January 13, 2019

7:45 am **Breakfast** **Tan Hall Lobby**

Sunday Lecture Session I – Discussion chair: Juan Garrahan **120 Latimer Hall**

9:00 am **Romain Vasseur, University of Massachusetts, Amherst**
“Hydrodynamics and diffusion in quantum integrable systems”

9:30 am **Monika Schleier-Smith, Stanford University**
“Choreographing Quantum Spin Dynamics with Light”

10:00 am **Tom Lubensky, University of Pennsylvania**
“Metamaterials and Topological Mechanics”

10:30 am **Coffee Break** **Tan Hall Lobby**

Sunday Lecture Session II – Discussion chair: Joel Eaves **120 Latimer Hall**

10:45 am **Baron Peters, Chemical and Biomolecular Engineering,
University of Illinois at Urbana-Champaign**
“Isolated catalyst sites on amorphous supports: a wild frontier for ab initio rate calculations”

11:15 am **Marina Guenza, University of Oregon**
“Coarse-Graining in Structure and in Time”

11:45 am **Jean-Louis Barrat, Université Grenoble Alpes**
“A statistical physics description of flow in disordered solids”

12:15 pm **Closing Remarks: Phill Geissler**

12:30 pm **Dim Sum Party** **775 Tan Hall**