

The 2020 Berkeley Statistical Mechanics Meeting
January 10 – 12, 2020

Friday, January 10, 2020

2:00 pm	Registration & Check-In	Tan Hall Lobby
4:00 pm	Poster Session I - Two-minute Talks David Limmer Presiding	100 Lewis Hall
5:00 pm	Poster Session I - Discussions & Light Reception	Tan Hall Lobby

Saturday, January 11, 2020

7:45 am	Breakfast	Tan Hall Lobby
8:45 am	Introductory Remarks Phill Geissler and David Limmer	100 Lewis Hall

Saturday Lecture Session I – Discussion chair: Michael Gruenwald **100 Lewis Hall**

9:00 am	Valeria Molinero, University of Utah <i>“Nucleation and Stationary States of Electrochemically Generated Nanobubbles”</i>	
9:30 am	Benjamin Rotenberg, Sorbonne Université <i>“Use the force! Reduced variance estimators for radial distribution functions, generic 3D densities and local transport coefficients”</i>	
10:00 am	Doug Tobias, University of California, Irvine <i>“Multi-scale simulations of protein interactions and organization in crowded solutions”</i>	
10:30 am	Coffee Break	Tan Hall Lobby

Saturday Lecture Session II – Discussion chair: Juan Garrahan **100 Lewis Hall**

10:45 am	Giulio Biroli, Ecole Normale Supérieure <i>“The Phase Transition Separating Brittle from Ductile Behavior in Amorphous Solids”</i>	
11:15 am	Jorge Kurchan, Ecole Normale Supérieure <i>“Glass theory for the skeptical”</i>	
11:45 am	David Reichman, Columbia University <i>“Tunneling Effects in Low-Temperature Amorphous Solids”</i>	
12:15 pm	Lunch	775 Tan Hall

Saturday Lecture Session III – Discussion chair: Grant Rotskoff **100 Lewis Hall**

- 2:00 pm** **Josh Shaevitz, Princeton University**
“Self-driven phase transitions in active living matter”
- 2:30 pm** **Zvonimir Dogic, University of California, Santa Barbara**
“Topological structure and dynamics of 3D active nematics.”
- 3:00 pm** **Kateri DuBay, University of Virginia**
“How the Collective Behavior of Nascent Oligomers Can Influence Copolymer Sequence”
- 3:30 pm** **Coffee Break** **Tan Hall Lobby**

Saturday Lecture Session IV – Discussion chair: Marie-Laure Bocquet	100 Lewis Hall
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- 3:45 pm** **Daniel Fisher, Stanford University**
“Microbial dynamics and diversity in high dimensions”
- 4:15 pm** **DAVID CHANDLER LECTURE**
Michele Parrinello, ETH Zurich
“From collective variables to descriptors”
- 5:00 pm** **Poster Session II – Two minute talks** **100 Lewis Hall**
- 6:00 pm** **Poster Session II – Discussions & Light Reception** **Tan Hall Lobby**

Sunday, January 12, 2020

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

Sunday Lecture Session I – Discussion chair: Rick Remsing	100 Lewis Hall
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- 9:00 am** **Lydéric Bocquet, Ecole Normale Supérieure**
“Fluidic transport in sub-2nm channels, towards an artificial ionic machinery”
- 9:30 am** **Madhavi Krishnan, Oxford University**
“From electrostatics to molecular structure and back”
- 10:00 am** **Erik Luijten, Northwestern University**
“Dielectric Manipulation of Soft Matter in and out of Equilibrium”
- 10:30 am** **Coffee Break** **Tan Hall Lobby**

