

The 2023 Berkeley Statistical Mechanics Meeting
January 13 – 15, 2023

Friday, January 13, 2023

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 14, 2023

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

Saturday Lecture Session I – Discussion chair: Adam Willard **100 Lewis Hall**

9:00 am	Chris Jarzynski, University of Maryland <i>“Stochastic thermodynamics in the strong coupling regime”</i>	
9:30 am	Mike Hagan, Brandeis University <i>“Optimal control of nonequilibrium self-assembly and active matter systems”</i>	
10:00 am	Todd Gingrich, Northwestern University <i>“The Wheel is Turning and you Can't Slow Down: Bringing the Dead to Life”</i>	
10:30 am	Coffee Break	Tan Hall Lobby

Saturday Lecture Session II – Discussion chair: Kateri Dubay **100 Lewis Hall**

10:45 am	Laura Kaufman, Columbia University <i>“Revisiting rotational-translational decoupling in supercooled systems on a molecule-by-molecule basis”</i>	
11:15 am	Ken Schweizer, University of Illinois Urbana-Champaign <i>“Coupled Local-Nonlocal Activated Dynamics in Simple and Complex Glass-Forming Liquids”</i>	
11:45 am	Monica Olvera de la Cruz, Northwestern University <i>“Metallization of Colloidal Crystals”</i>	
12:15 pm	Lunch	775 Tan Hall

Saturday Lecture Session III – Discussion chair: Julia Rogers	100 Lewis Hall
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- 2:00 pm** **Andela Saric, Institute of Science and Technology Austria**
“One becomes two: active filaments that split cells across evolution”
- 2:30 pm** **Daniel Fisher, Stanford University**
“Ecology and evolution in high dimensions”
- 3:00 pm** **Oskar Hallatschek, University of Leipzig**
“On the Brownian motion of Covid lineages”
- 3:30 pm** **Coffee Break** **Tan Hall Lobby**

Saturday Lecture Session IV – Discussion chair: Kranthi Mandadapu	100 Lewis Hall
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- 3:45 pm** **Michael Desai, Harvard University**
“Characterizing high-dimensional fitness landscapes”
- 4:15 pm** **DAVID CHANDLER LECTURE**
Arup Chakraborty, MIT
“Viruses, antibodies, and vaccines”
- 5:10 pm** **Poster Session II – Two minute talks** **100 Lewis Hall**
- 6:00 pm** **Poster Session II – Discussions & Light Reception** **Tan Hall Lobby**

Sunday, January 15, 2023

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

Sunday Lecture Session I – Discussion chair: David Huang	100 Lewis Hall
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- 9:00 am** **Stephen Cox, Cambridge University**
“Crude with Drude: A classical view of quantum friction”
- 9:30 am** **Roger Loring, Cornell**
“Multidimensional optical spectra from classical trajectories”
- 10:00 am** **Michele Ceriotti, EPFL**
“Atom-density correlation functions: from statistical mechanics to statistical learning”
- 10:30 am** **Coffee Break** **Tan Hall Lobby**

10:45 am **Robert Jack, Cambridge University**
“Yielding in colloidal gels, one strand at a time”

11:15 am **Thomas Speck, University of Stuttgart**
“Critical behavior of scalar active matter”

11:45 pm **Closing Remarks: David Limmer**

12:00 pm **Pizza Party**

775 Tan Hall