

Center for Soft Matter and Biological Physics Virtual Symposium 2020

Scientific Program

Wednesday, May 20, 2020

Time	Speaker	Talk Title
10:00-10:05	Uwe Tauber	Welcome
Session 1, Chair: Nadir Kaplan		
10:05-10:25	Nadir Kaplan	Morphogenesis and morphometrics of soft systems
10:25-10:45	John Phillips	Did the evolution of a photoreceptor-based magnetic compass predate vision?
10:45-11:05	Sohan Kale	Upscaling active-gel theory of actomyosin cortex to epithelial tissue mechanics
11:05-11:25	Riya Nandi	Stochastic modelling of dynein motors on a one-dimensional lattice
11:25-11:45	Abhishek Singh	High precision megahertz to terahertz spectroscopy of aqueous DNA solutions
11:45-12:45	Lunch	
Session 2, Chair: Michel Pleimling		
1:00-1:20	Michel Pleimling	Creating order out of chaos: local control of reaction-diffusion systems
1:20-1:40	Priyanka	A PD control strategy for a dynamical network model (Priyanka)
1:40-2:00	Layne T. Watson	A new algorithm for parameter estimation in stochastic models
2:00-2:20	Djordje Minic	The universality of the genetic code, and beyond
2:20-2:40	Justin Barone	Fragmentation of plastics into microplastics
Session 3, Chair: Jiangtao Cheng		
2:40-3:00	William Ducker	Adsorption of molecules in highly confined geometries
3:00-3:20	Lou Madsen	Nanoscale confinement and intermolecular effects on transport in polymer membranes
3:20-3:40	Jiangtao Cheng	A universal mechanism of nanoscale transport of interfacial liquids near a solid surface
3:40-4:00	Jonathan Boreyko	Tree-inspired water harvesting
4:00-4:20	Xukun He	Evaporation of squeezed water droplets between two parallel hydrophobic/superhydrophobic surfaces
4:20-4:40	Shengfeng Cheng	Nanoparticle-induced phase separation in miscible liquids

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