ChemE MIT Chemical Engineering

Seminar Series
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Colloids in Complicated Baths

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3pm, Reception 2:45pm
66-110

I know what you're thinking: "*It's spring break next week, this seminar is Friday 3pm, and I don't even recognize this speaker.*"

I'll do my best to make this worth your time—at the very least, you'll be entertained, and hopefully you'll learn a thing or two along the way.

Colloidal interactions are often treated as intrinsic material properties, yet in most soft and biological systems they are mediated by a surrounding bath that is viscoelastic, active, and far from equilibrium. In this seminar, I describe how we use quantitative microscopy, optical manipulation, and theory to measure and model fluid-mediated interactions in such complicated baths, with the goal of developing constitutive equations that bridge microscopic dynamics and continuum transport.

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