

Title: Colloids, Phonons, and Coffee Rings

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Abstract

I will discuss findings from recent experiments with colloidal suspensions which reveal new phenomena associated with a surprisingly broad range of problems. The first set of experiments employ suspensions of temperature-sensitive microgel particles to study phonons in colloidal glasses and melting phenomena in colloidal crystals. The second set explores the role of particle shape in affecting particle deposition during evaporation, i.e., the affect of particle shape on the coffee ring effect.