

Movie captions

Supplementary Movie 1

Confocal microscope movie of a nucleating colloidal liquid. We image the condensation of colloidal particles into a liquid phase upon increasing critical Casimir interactions. The attractive critical Casimir interactions grow as we approach the phase separation temperature T_c of the suspending solvent, which in this case is $T_c = 52.2^\circ\text{C}$. In this movie, we start at $\Delta T = 0.4^\circ\text{C}$ below T_c , and raise the temperature to $\Delta T = 0.25\text{K}$, corresponding to attractive strengths increasing from 0.8 to $1.5k_B T$ per particle. The movie shows numerous nucleation and growth events. The total time interval is 60 minutes.

Supplementary Movie 2

Confocal microscope movie of evaporating colloidal liquid drops. In this movie, we image the behavior of colloidal liquid drops upon reducing the particle interactions. We start at $\Delta T = 0.25^\circ\text{C}$ below the solvent phase separation temperature, at which a colloidal gas-liquid equilibrium has formed, and lower the temperature to $\Delta T = 0.5^\circ\text{C}$, thus reducing the critical Casimir interactions. The movie shows the resulting increasing particle diffusion inside the colloidal liquid clusters, as well as the final evaporation of the liquid clusters.