

Abstract Submitted
for the MAR14 Meeting of
The American Physical Society

Colloidal samaras DANIELA KRAFT, Univ of Leiden, RAPHAEL WITTKOWSKI, University of Edinburgh, OLIVER DLUGOSCH, HARTMUT LÖWEN, University of Düsseldorf, DAVID PINE, New York University — We present a combined experimental and computational study of the sedimentation of colloidal particles composed of materials of different densities. We follow the sedimentation experimentally by confocal microscopy and compare the observed trajectories to simulation results. We find that particular mass distributions and shapes lead to a helical motion during sedimentation, similar to that of samaras.

Daniela Kraft
Univ of Leiden

Date submitted: 15 Nov 2013

Electronic form version 1.4