

Read me file

**Simulating the self-assembly and hysteresis loops of ferromagnetic nanoparticles with sticking of ligands**

N R Anderson, J Davidson, D R Louie, D Serantes and K L Livesey

The four videos show magnetic nanoparticles moving under the influence of an external, oscillating magnetic field with amplitude 100 kA/m and frequency 1.25 kHz.

An increase in the label “c” indicates an increase in the sticking of ligands resulting in stiffer agglomerates forming.

The fortran file is the code that produces these results using Langevin dynamics for the translations and rotations.