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MD Simulations of DNA-Programmable Nanoparticle Self-Assembly[1] CHRISTOPHER KNOROWSKI, ALEX TRAVESSET, Department of Physics and Astronomy and Ames Laboratory, Iowa State University, Ames, IA — Self-assembly through linker mediated hybridization is a powerful technique to control self-assembly at the nanoscale. Recent experiments with complementary ss-DNA attached to Au nanoparticles have shown crystallization into BCC and FCC crystals. We give a brief overview of a coarse grained model and present molecular dynamics simulations of the model. We discuss its static and dynamical properties.

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