

Abstract Submitted
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Isomers of Janus colloidal clusters QIAN CHEN, STEVE GRANICK,
University of Illinois at Urbana Champaign — Colloidal clusters formed by the reversible assembly of amphiphilic Janus spheres show time-dependent isomerization between different isomeric shapes. Here, the rate constant is obtained experimentally by decoupling isomerization from other interconversions between clusters of different mass. The equilibrium constant is found to be controlled by ionic strength, volume fraction and Janus balance. This isomerization between clusters of the same mass but different shape has bearing on understanding nucleation that precedes subsequent growth.

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