

Abstract Submitted  
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**Crystallography on Spherical Surfaces** GUANGNAN MENG,  
VINOTHAN MANOHARAN, Harvard University, Physics & SEAS — We encapsulate micron sized colloidal particles inside w/o emulsion droplets. We control particle-particle and particle-interface interactions, so that the particle stay close to the interface but without penetrating the w/o interface. Monolayered colloidal crystallite form near the spherical interface at equilibrium. We use this system to study how the topological defects and disclinations diffuse and relax on spherical surfaces.

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