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Controlling Compartmentalization Through Active Confinement MATTHEW SPELLINGS, MICHAEL ENGEL, DAPHNE KLOTSA, Univ of Michigan - Ann Arbor, KYLE BISHOP, The Pennsylvania State University, SHARON GLOTZER, Univ of Michigan - Ann Arbor — Active matter is an exciting area of study that displays promising new behaviors previously unobtainable in equilibrium systems and could help bridge the gap between equilibrium colloidal- and nanoscale particles and living cells. In this talk, we will discuss novel, emergent behavior observed simulations of confined "cells" comprised of active particles. We show how the results of a microscopic model are reproduced in a continuum model.

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