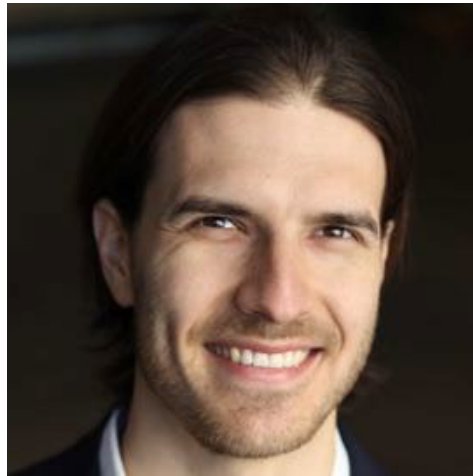


PHYSICAL MATH SEMINAR

Pattern formation in odd active solids



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ABSTRACT:

Active solids consume energy to allow for actuation and shape change not possible in equilibrium. I will focus on the elasticity of systems as wide-ranging as living matter, nanoparticles, and mechanical structures composed of active robotic components. I will discuss how in lattices of robots, inertia and active elasticity conspire and give rise to new varieties of pattern formation. These results provide a theoretical underpinning for recent experiments and point to the design of novel soft machines.

TUESDAY, DECEMBER 19, 2023

2:30 PM – 3:30 PM

Building 2, Room 449

<https://math.mit.edu/pms/>