

Abstract Submitted
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Emergent properties in experiments with synthetic micro-swimmers JEREMIE PALACCI, UCSD, Department of Physics, UCSD/NYU TEAM — Self-propelled micro-particles are intrinsically out-of-equilibrium. This renders their physics far richer than passive colloids and give rise to the emergence of complex phenomena e.g. collective behavior, swarming... I will present a variety of non-equilibrium phenomena observed with experimental realization of synthetic micro swimmers: self-assembly, sensing of the environment, or effective interactions, in the absence of any potential.

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