

Abstract Submitted  
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**Active Jamming** JEREMIE PALACCI, CSMR, NYU, STEFANO SACANNA, Dpt of Chemistry, NYU, DAVID PINE, PAUL CHAIKIN, CSMR, NYU, CSMR, NYU TEAM — Self-propelled micro-particles are intrinsically out-of-equilibrium. This renders their physics far richer than that of passive colloids while relaxing some thermodynamical constraints and give rise to the emergence of complex phenomena e.g. collective behavior, swarming...I will present the effect of a few active particles in a dense 2D layer of passive colloids. Surprising effect arise from the presence of the self-propelled particles which considerably modify the dynamics of the system. The addition of self propelled particles into materials open new perspectives in the design and the properties of new materials

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