

Motile Fluids: Granular, Colloidal and Living

(Talk #18)

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I will summarize recent results, obtained in collaboration with students and colleagues, on theory, simulations and experiments on spontaneous ordering and instabilities in a variety of realizations of active systems. Among the results I will report are: clusters, asters and oscillations in colloidal chemotaxis; the coupled dynamics of fluid membranes and the cytoskeleton; self-propelled solids; flocking at a distance in vibrated granular monolayers.