

“Bacterial fluids : active Brownian motion and rheology”

Dr. Eric Clement

École Supérieure de Physique et de Chimie Industrielles (ESPCI), Paris, France

Assemblies of microscopic swimmers dispersed in a fluid display emergent properties differing strongly from those of passive suspensions. In this presentation, I will discuss recent work done in the laboratory with suspensions of wild-type E-Coli bacteria. First, I will present the problem of activation of passive tracers beyond the thermal limit of Brownian motion. Then I will discuss the issue of viscosity of bacterial suspension and show that it can be accessed using an original microfluidic device.

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