

Abstract Submitted
for the MAR16 Meeting of
The American Physical Society

Collective motion in *Proteus mirabilis* swarms XU HAORAN¹,
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teus mirabilis is a Gram-negative, rod-shaped bacterium. It is widely distributed
in soil and water, and it is well known for exhibiting swarming motility on nutrient
agar surfaces. In our study, we focused on the collective motility of *P. mirabilis* and
uncovered a range of interesting phenomena. Here we will present our efforts to
understand these phenomena through experiments and simulation.

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Date submitted: 06 Nov 2015

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