

Abstract Submitted
for the DFD15 Meeting of
The American Physical Society

Interactions of micro-organisms near a wall in Stokes flow using a regularized image system JIANJUN HUANG, SARAH OLSON, Worcester Polytechnic Institute — We present an extension of the regularized image system for Stokeslets, where regularization functions and parameters are chosen to satisfy zero flow at the wall for several different fundamental solutions. We study elastic rods near a wall using a Kirchhoff rod formulation. Results are presented for equilibrium states of straight rods and the effect of wall to the time required to reach equilibrium.

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Date submitted: 28 Jul 2015

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