

Abstract Submitted
for the DFD17 Meeting of
The American Physical Society

Statistical analysis of sperm sorting JAMES KOH, MARCOS MARCOS¹, Nanyang Tech Univ — The success rate of assisted reproduction depends on the proportion of morphologically normal sperm. It is possible to use an external field for manipulation and sorting. Depending on their morphology, the extent of response varies. Due to the wide distribution in sperm morphology even among individuals, the resulting distribution of kinematic behaviour, and consequently the feasibility of sorting, should be analysed statistically. In this theoretical work, Resistive Force Theory and Slender Body Theory will be applied and compared.

¹Full name is Marcos.

James Koh
Nanyang Tech Univ

Date submitted: 15 Jul 2017

Electronic form version 1.4