

Dynamics of elastic microfilaments in fluids

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Abstract

Flagella of bacteria or algae, chains of diatoms, actins or artificially made microfibers are just some examples of elongated deformable microobjects moving in fluids. The basic question is how elasticity influences dynamics of such objects. Different dynamical modes and migration of flexible fibers entrained by the shear flow [1, 2] or sedimenting under gravity [3, 4] will be discussed.

References

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