

Abstract Submitted
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Elastic swimming I: Optimization ERIC LAUGA, TONY YU,
ANETTE HOSOI, MIT — We consider the problem of swimming at low Reynolds
number by oscillating an elastic filament in a viscous liquid, as investigated by
Wiggins and Goldstein (1998, Phys Rev Lett). In this first part of the study, we
characterize the optimal forcing conditions of the swimming strategy and its optimal
geometrical characteristics.

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