Hydrodynamics of a self-propelled camphor boat

V. S. Akella, D. K. Singh, S. Basu, R. K. Singh, S. Mandre, and M. M. Bandi Collective Interactions Unit, OIST Graduate University,
1919-1 Tancha, Onna-son, Okinawa, Japan 904-0495
School of Engineering, Brown University, 182 Hope Street, Providence, RI 02906, USA (Dated: January 15, 2015)

INTRODUCTION

EXPERIMENT: SETUP AND PROTOCOL

TRANSIENT DYNAMICS

STEADY STATE DYNAMICS

DISCUSSION

SUMMARY

VSA, DKS, SB and MMB were supported by the OIST Graduate University with subsidy funding from the Cab-

inet Office, Government of Japan. RKS was hosted by OIST Graduate University on a research internship while performing this work. MMB acknowledges L. Mahadevan for introducing the camphor boat system and subsequent scientific discussions, and D. Vu Anh for help with preliminary experiments.