

Abstract Submitted
for the DFD11 Meeting of
The American Physical Society

The velocity of “large” viscous drops falling on a coated vertical fiber JOHN HINCH, LIYAN YU, DAMTP, University of Cambridge — Kalliadasis & Chang (1994) showed within lubrication theory that if the coating is thicker than a critical value, drops accelerate and grow, whereas on thinner coatings, drops fall at a constant velocity. As the thickness of the coating increases to the critical value, the drops move faster and are bigger. We revisit their asymptotic analysis of these large drops.

John Hinch
DAMTP, University of Cambridge

Date submitted: 28 Jul 2011

Electronic form version 1.4