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**Viscous effects in drop impact** ROBERTO ZAMORA, ROBERT SCHROLL, FRANCOIS BLANCHETTE, WENDY ZHANG, Physics Department and the James Franck Institute, the University of Chicago — We investigate the onset of splash for a viscous drop impacting a solid surface. The simulation is based on the volume-of-fluid methods of Popinet and Zaleski [Int. J. Numer. Meth. Fluids **30**, 775-793 (1999)] and tracks the interface evolution explicitly. The qualitative shape evolution and the quantitative spreading dynamics are examined and compared against available experimental results.

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