

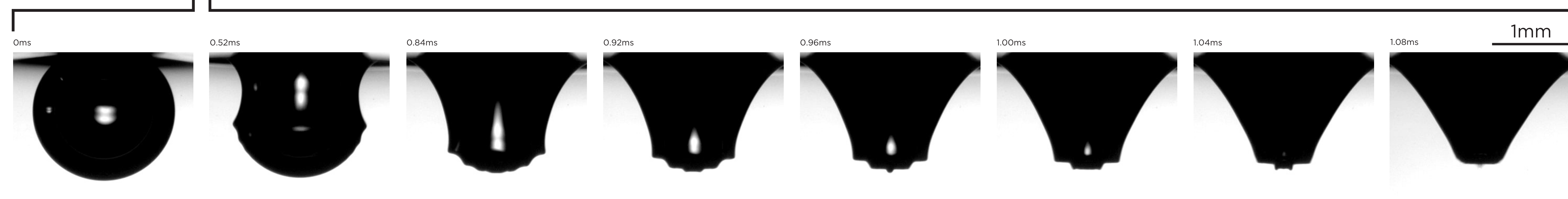
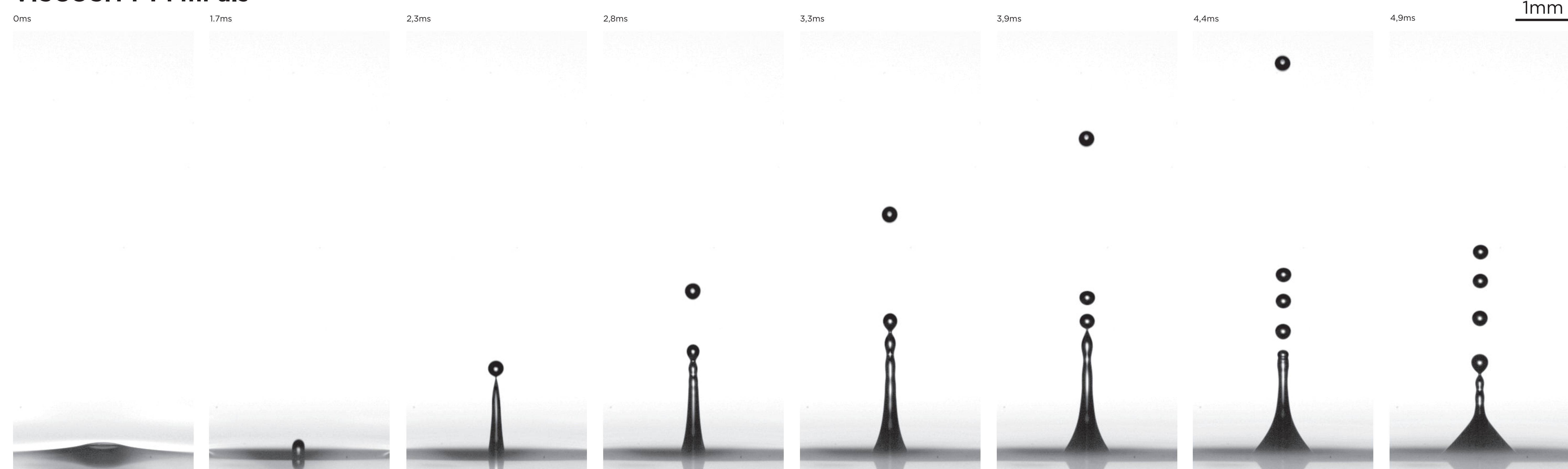
ON THE PHYSICS OF FIZZINESS

When a tiny bubble lying on a surface bursts, the unstable opened cavity collapses through focusing of capillary waves and a jet emerges producing droplets by breaking-up. Counter-intuitively, smaller and faster droplets are ejected when bubble bursts in a viscous fluids, because damping of the smallest focusing capillary waves results in a more efficient collapse.

Elisabeth Ghabache
Arnaud Antkowiak
Christophe Josserand
Thomas Séon

Institut Jean le Rond d'Alembert
CNRS & UPMC
UMR 7190
Paris, France

VISCOSITY : 1 mPa.s



VISCOSITY : 6 mPa.s

