Electronic Supplementary Information for Publication

Dynamics and thin film drainage of a deformable droplet moving

toward a solid wall with finite inertia

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In the submitted movie file (DropSubstrateLHO-HSL.mp4), the animation for the head-on approaching with Re=25, We=0.125, Ca=0.005 is presented first, and then the animation of the oblique approaching with Re=50, We=0.5, Ca=0.01. In the movie, the blue mesh denotes the droplet, and the red mesh stands for the surrounding phase. The detailed view of the thin film thininng and the mesh adaptation near this region is displayed in the zoomed-in-view window.