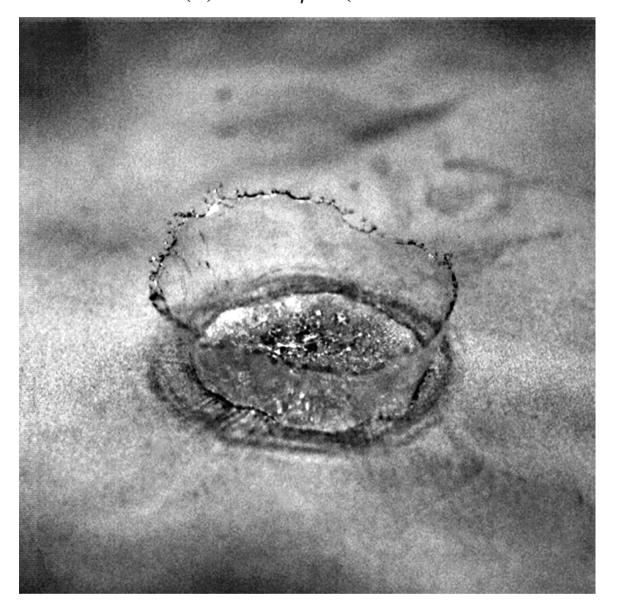
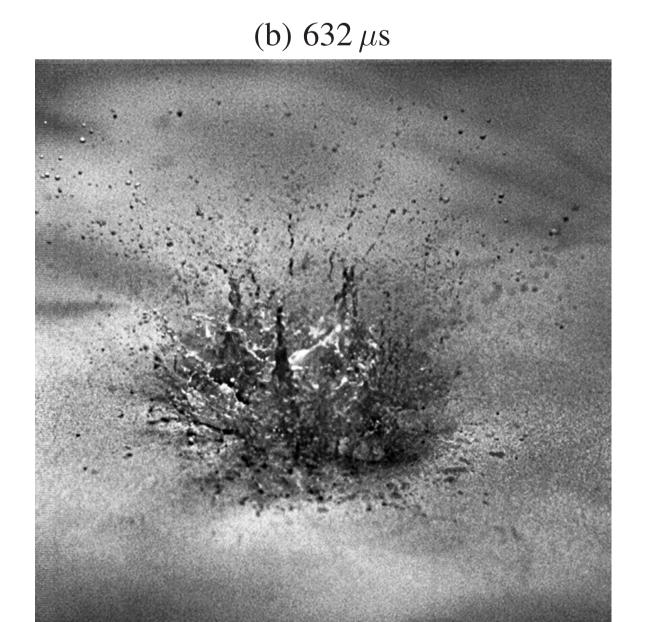
Shock wave-droplet interaction Hamed Habibi and Rouslan Krechetnikov

Water droplet



(a) 1896 μ s (brown marks are the wetted areas on a metal substrate)



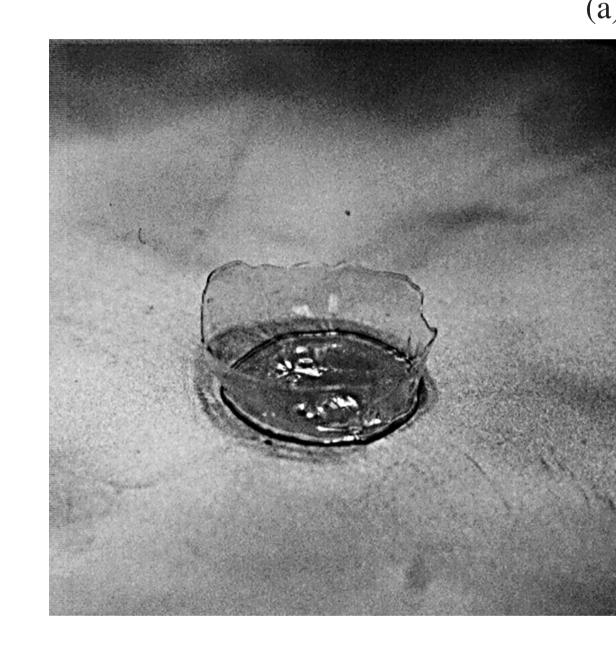


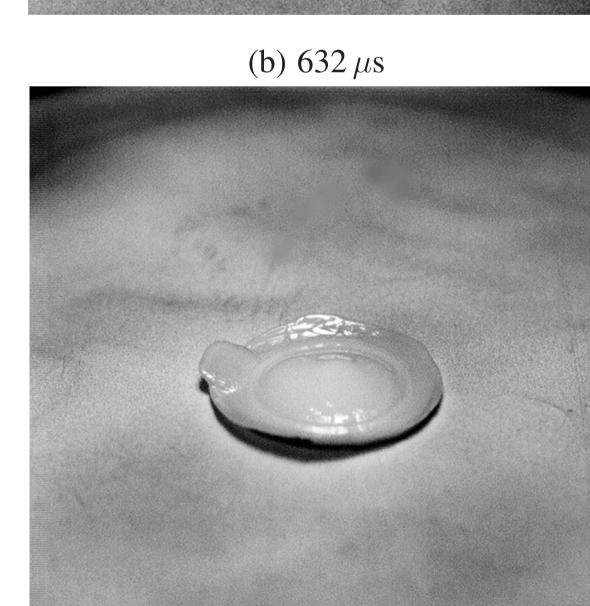
(c) $948 \,\mu s$

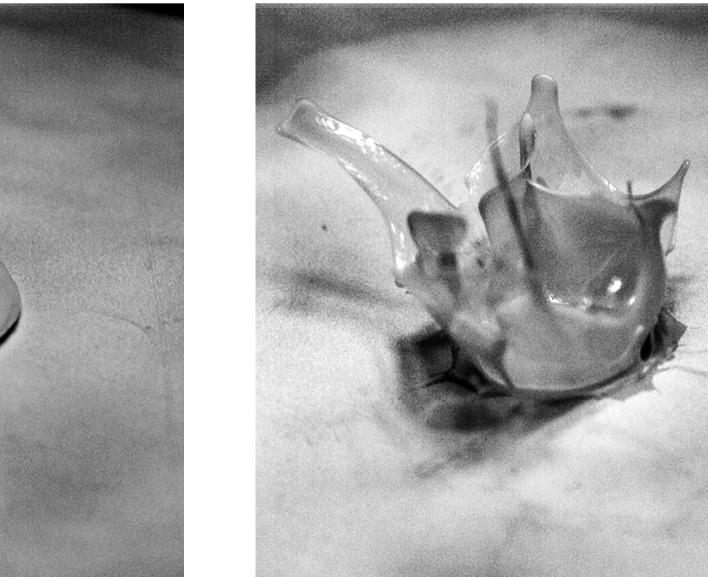
(d) $1580 \,\mu s$ (e) $1896 \,\mu s$ Disintegration of a 0.05 ml droplet; time stamps are given from the electromagnetically-induced shock impact; in the photos (c-e) $Ti O_2$ was added.

Glycerol droplet







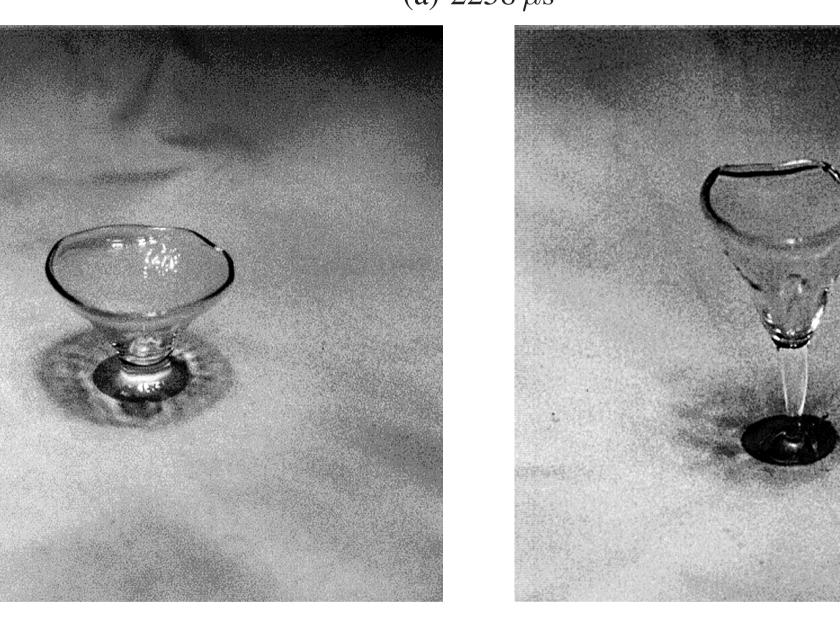


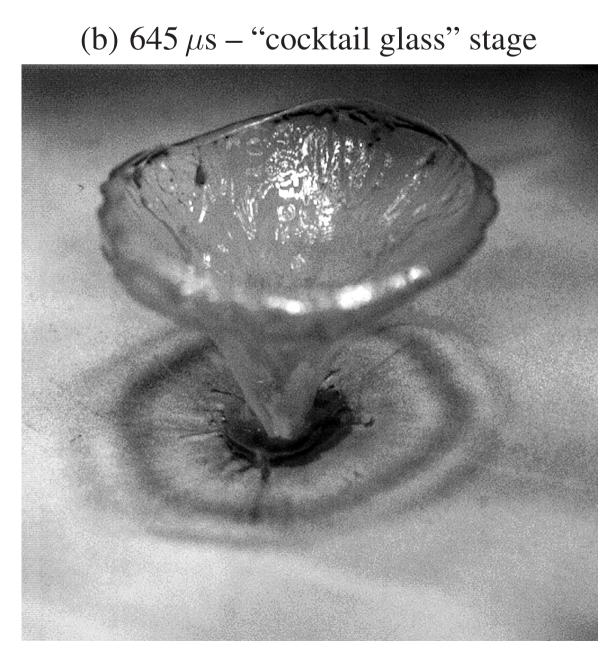
(c) $2212 \,\mu s$

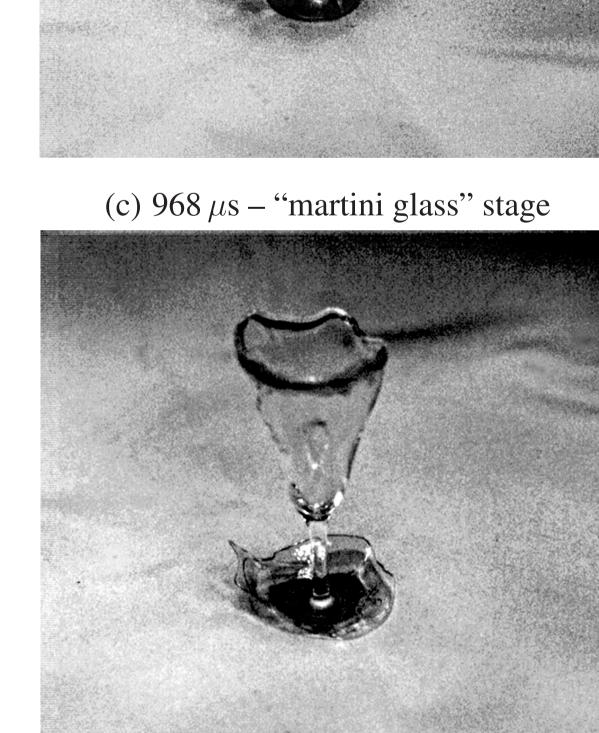
(d) $632 \,\mu s$ (e) $1896 \,\mu s$ Figure 2: Deformation of a 0.05 ml droplet; time stamps are given from the electromagnetically-induced shock impact; in the photos (d-e) $Ti O_2$ was added.

Sugar-water droplet









(d) $1264 \mu s$ – "mushroom glass" stage (e) $1290 \,\mu\text{s}$ – back to "martini glass" stage Figure 3: Deformation of a 0.05 ml droplet; time stamps are given from the electromagnetically-induced shock impact.