

Supplementary material:

Dynamics of high-speed micro-droplet impact:
numerical simulations and experiments at frame
rates beyond 10^7 fps

Claas Willem Visser, Philipp Frommhold, Sander Wildeman,

Robert Mettin, Chao Sun, Detlef Lohse,

November 3, 2014

Table 1: Parameters for droplet impact movies. Their point in the phase diagram has been indicated in figure S1.

File name	$D_0[\mu\text{m}]$	$V_0 [\text{m/s}]$	Re	We	Surface	Bottom view
Mov1	45	15	696	150	Superhydrophobic	No
Mov2	50	17	836	196	Glass	Yes
Mov3	49	16	803	183	Glass	No
Mov4	49	16	803	183	RainX	No
Mov5	47	26	1231	449	Glass	No
Mov6	47	26	1237	453	RainX	No
Mov7	47	49	2286	1559	Glass	No
Mov8	47	49	2283	1550	RainX	No

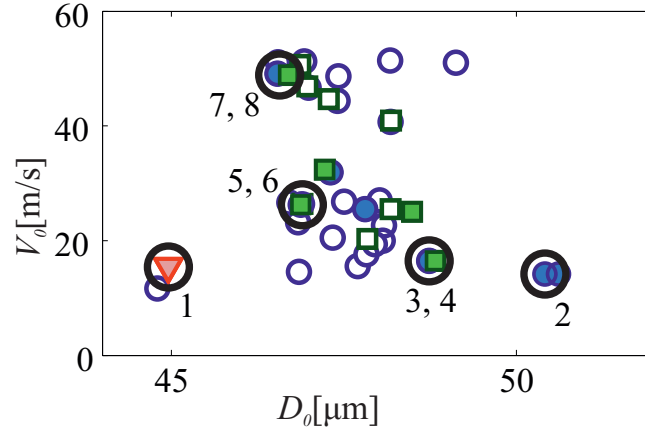


Figure S1: Overview of the phase space of droplet impact: velocity versus diameter.

Movies are labeled with a number, corresponding to table 1