Abstract Submitted
for the DFD16 Meeting of
The American Physical Society

Ring bouncing PIERRE CHANTELOT, ANAIS GAUTHIER, CHRISTOPHE CLANET, DAVID QUERE, LadHyX, Ecole Polytechnique - PMMH, ESPCI — Point like superhydrophobic macrotextures attached to a flat substrate of same repellency can modify the dynamics of impacting water droplets and lead to shorter bouncing times than on a flat substrate. We investigate the contact time reduction for centered and off-centered impacts on a single texture and show that the effect is robust. We discuss how a macrotextured substrates modifies the impact figure compared to a regular substrate and link it to the reduction of the bouncing time.

Pierre Chantelot
LadHyX, Ecole Polytechnique - PMMH, ESPCI

Date submitted: 30 Jul 2016 Electronic form version 1.4