Abstract Submitted
for the DFD16 Meeting of
The American Physical Society

Air cushioning vs liquid jets in drop impact CHRISTOPHE JOSSERAND, PASCAL RAY, CNRS, Institut D'Alembert, STEPHANE ZALESKI, UPMC, Institut D'Alembert, INSTITUT D'ALEMBERT TEAM — Drop impact on a liquid thin film is investigated numerically, focusing on the interaction between the air cushioning and the splashing dynamics. We show that a new dimensionless number, balancing the time scale of the lubrication dynamics and that of the jet formation is at the heart of the different mechanisms at play.

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Date submitted: 29 Jul 2016 Electronic form version 1.4