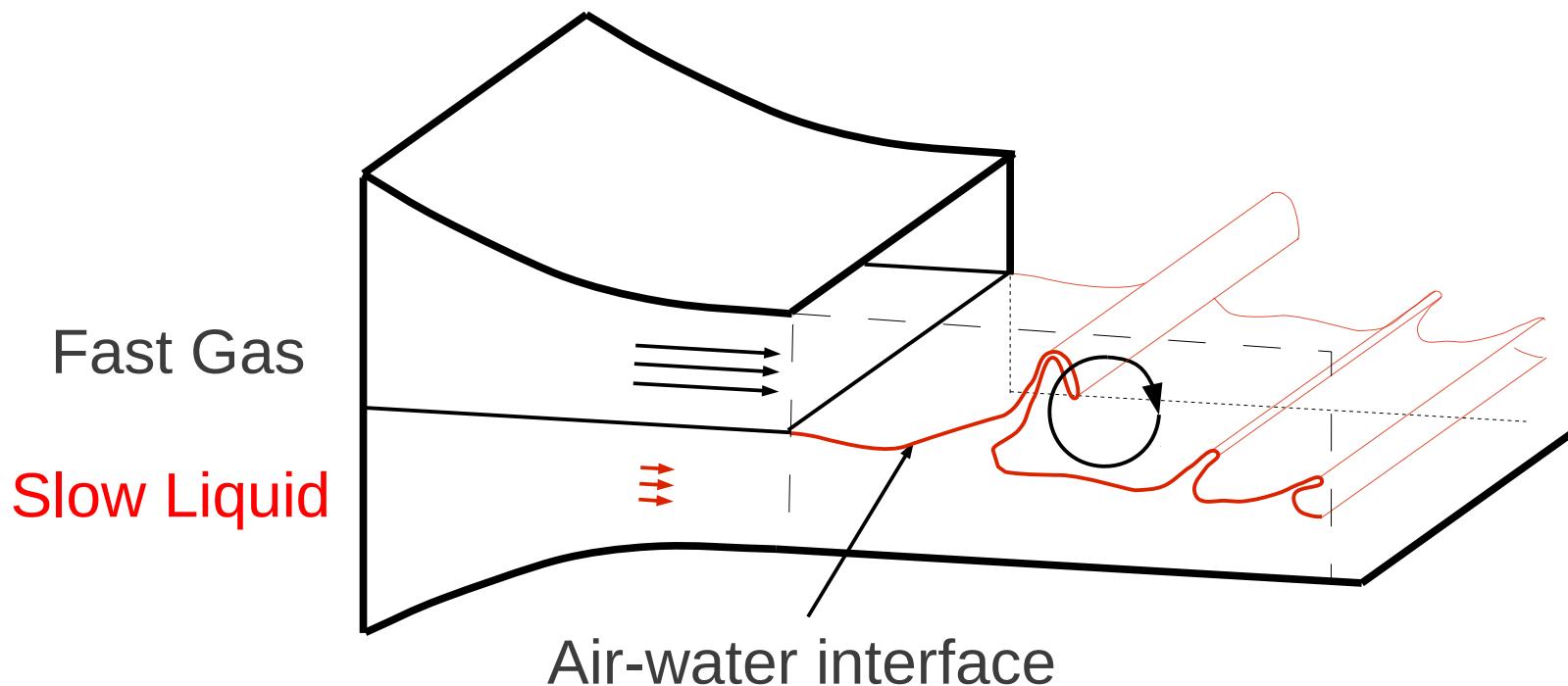


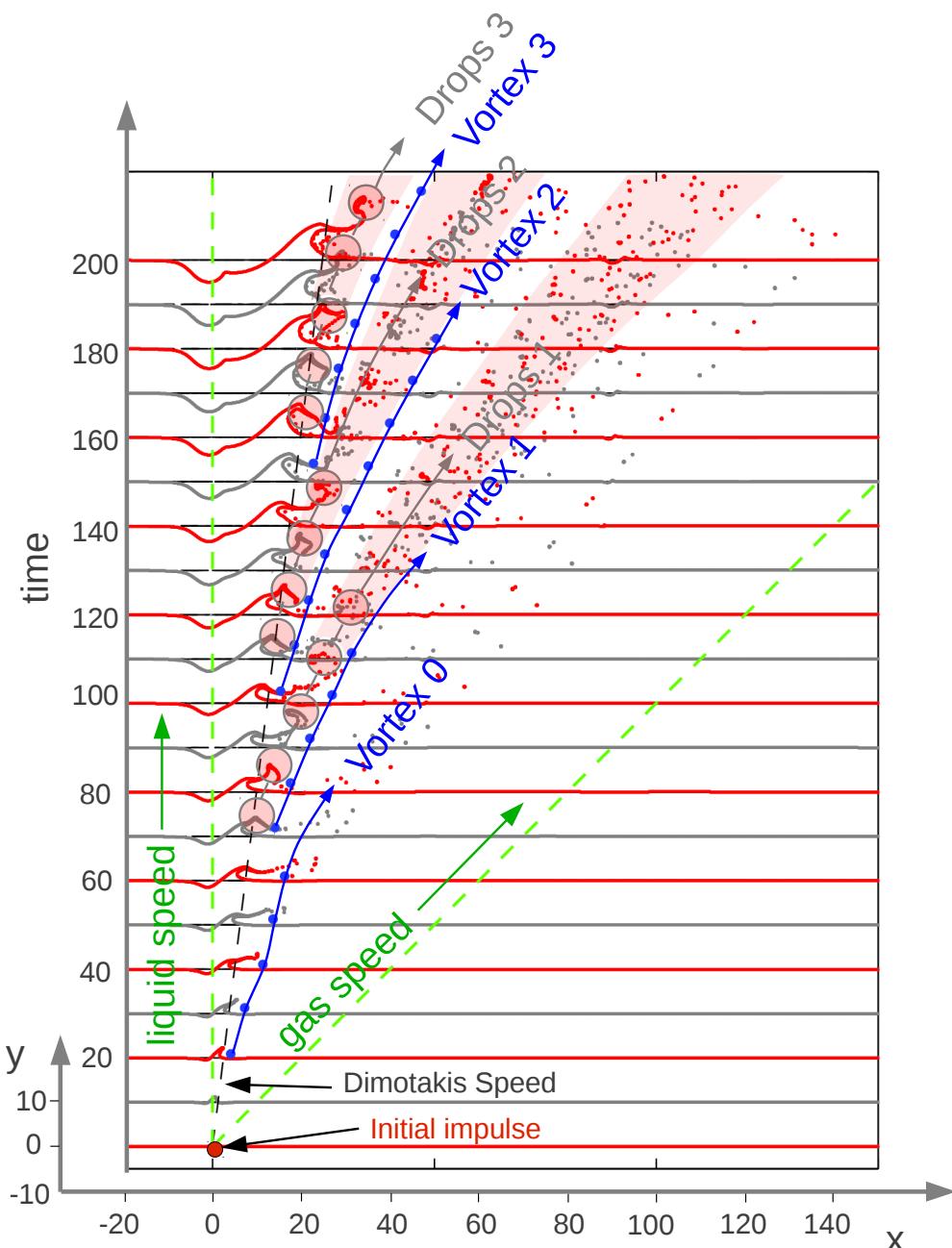
# Vortices catapult droplets in atomization

J. John Soundar Jerome<sup>#</sup>, Sylvain Marty<sup>§</sup>, Jean-Philippe Matas<sup>§</sup>,  
Stéphane Zaleski<sup>#</sup> & Jérôme Hoepffner<sup>#</sup>

<sup>#</sup>UPMC Université Paris 06  
CNRS – UMR 7190, Institut d'Alembert  
F-75005 Paris, France

<sup>§</sup>Laboratoire des Écoulements Géophysique et Industriels (LEGI)  
CNRS – Université Joseph Fourier,  
38041 Grenoble Cedex 9, France





Spatio-temporal representation of the gas-liquid interface for density ratio,  $r = 0.02$  displaying three successive droplet catapult sequences. During each of the sequences, the liquid film at the crest of the wave flaps, swells-up and breaks-up.

