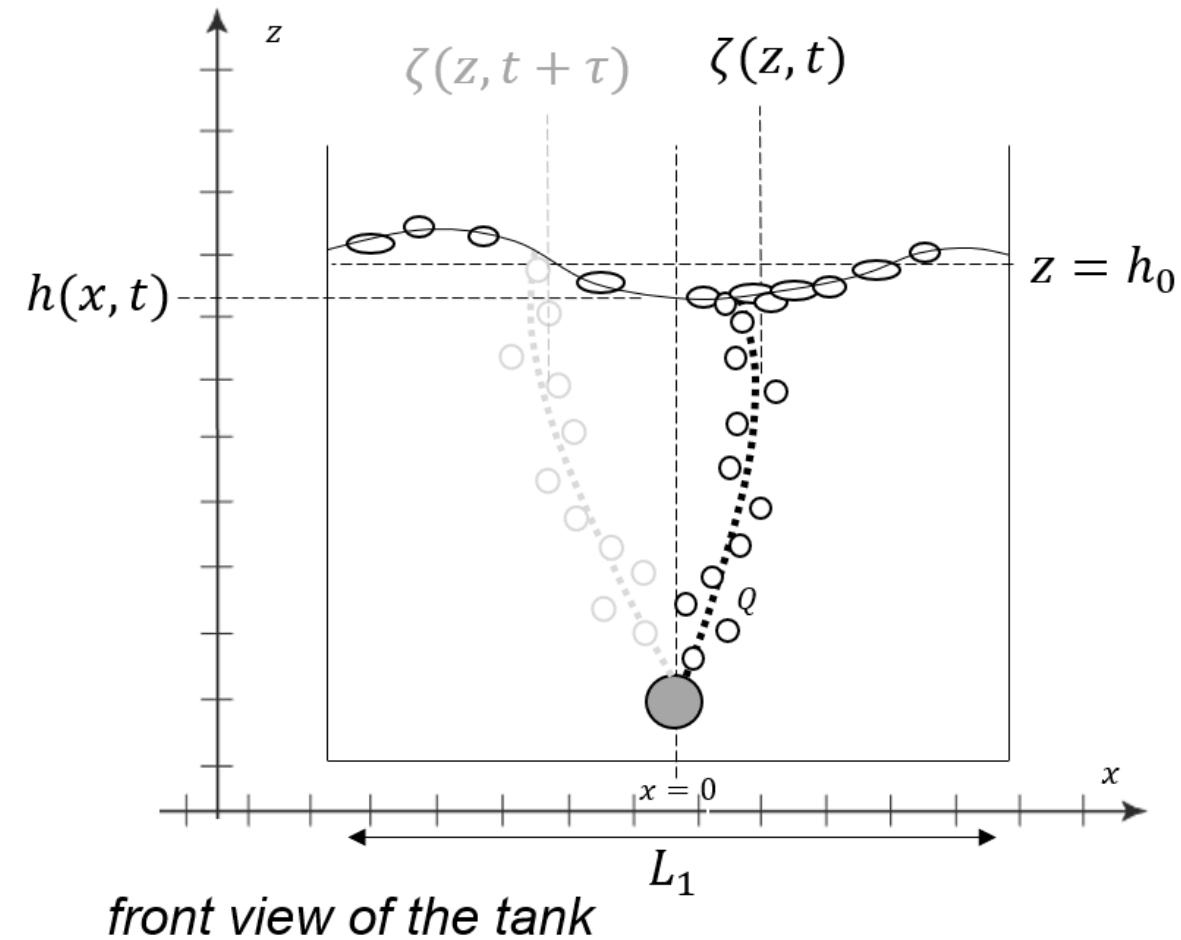


Sloshing instability driven by bubble plume



¹ LadHyX, Ecole Polytechnique, 91120, Palaiseau

² PMMH, ESPCI, 75005 Paris

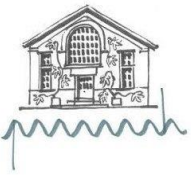
³ Saint-Gobain Recherche, 93300, Aubervilliers, France

Marc Cordelle Vacher^{1,2,3}

Thomas Boirot¹

Stéphane Perrard²

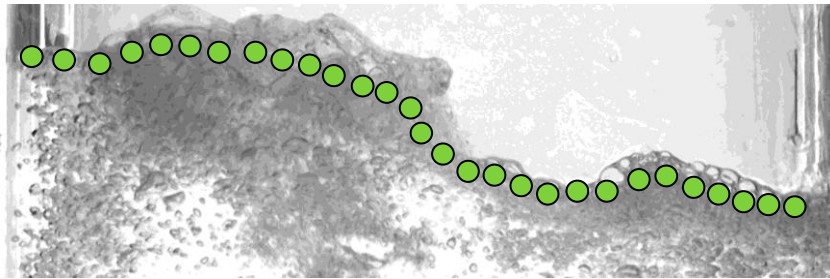
Sophie Ramanarivo¹



Sloshing instability driven by bubble plume

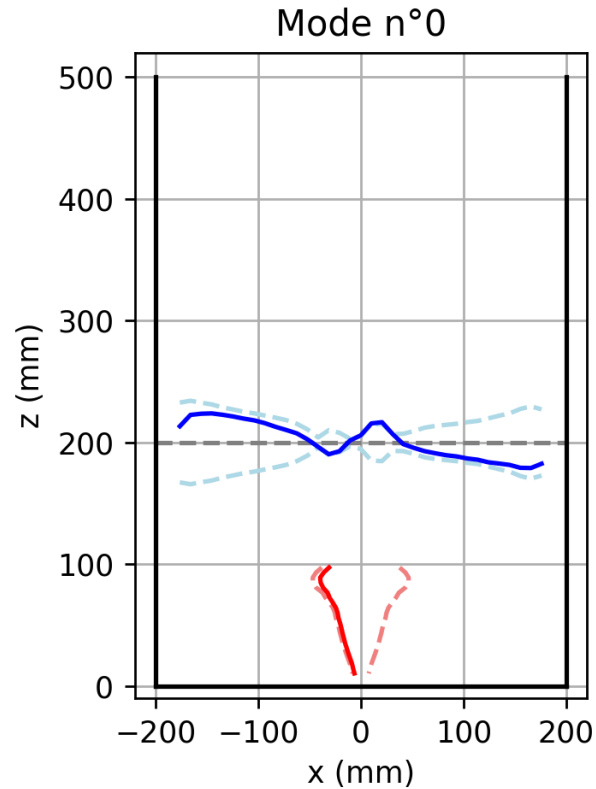


Shadowgraphy reconstruction



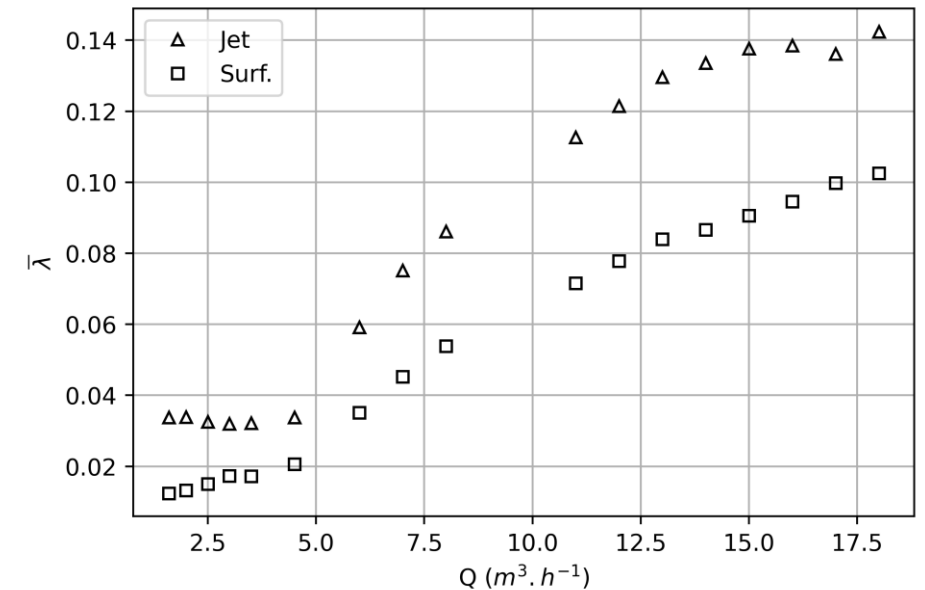
$h(x, t)$ & $\zeta(z, t)$

Complex Orthogonal
Decomposition¹
(Complex Fourier P.O.D)



Modal reconstruction

Bifurcation
analysis



¹ B.F. Feeny, A complex orthogonal decomposition for wave motion analysis, Journal of Sound and Vibration, Volume 310, Issues 1–2, 2008