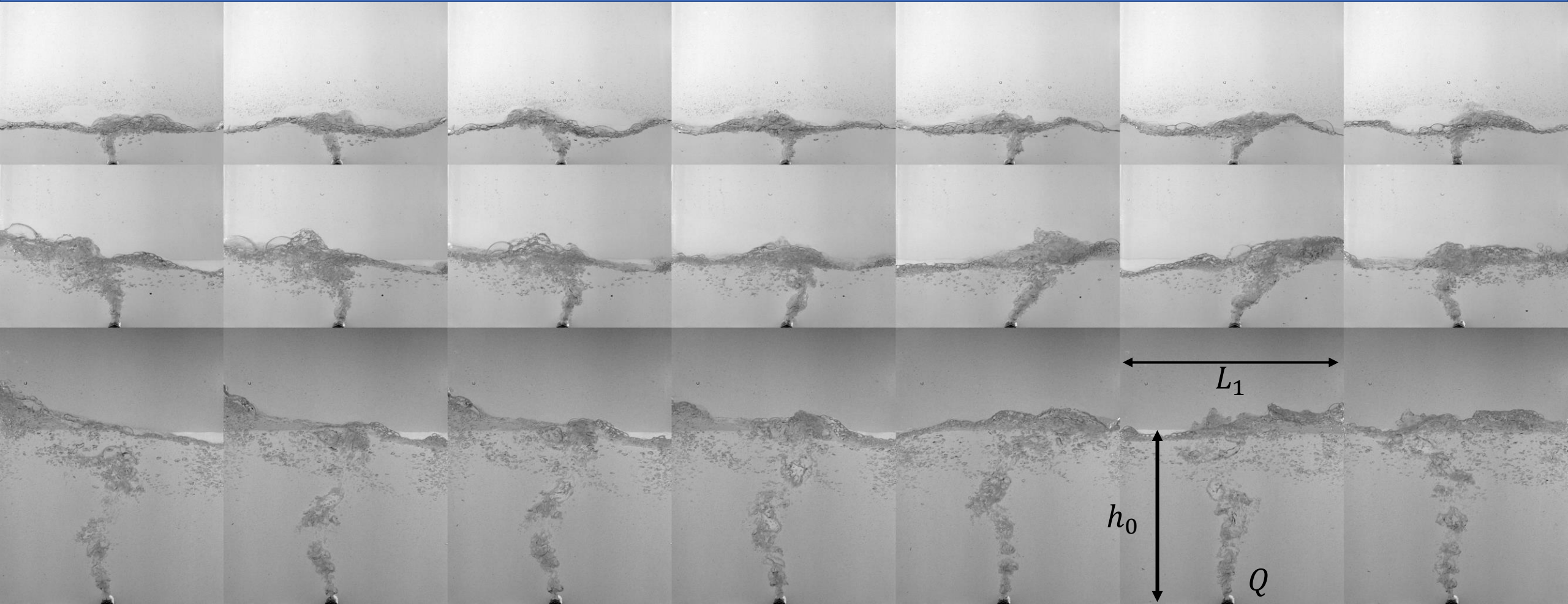




Sloshing instability driven by bubble flow



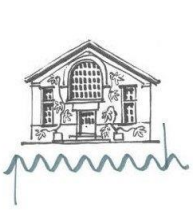
¹ LadHyX, Ecole Polytechnique, 91120, Palaiseau

² PMMH, ESPCI, 75005 Paris

³ Saint-Gobain Recherche, 93300, Aubervilliers, France

Marc Cordelle Vacher^{1,2,3}
Tullio Traverso³

Stéphane Perrard²
Sophie Ramanarivo¹



Sloshing instability driven by bubble flow

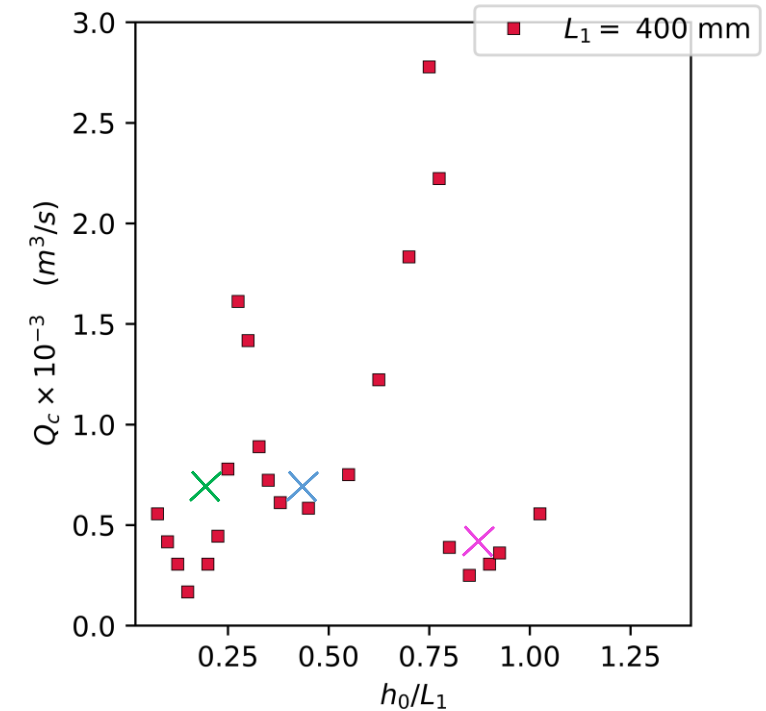
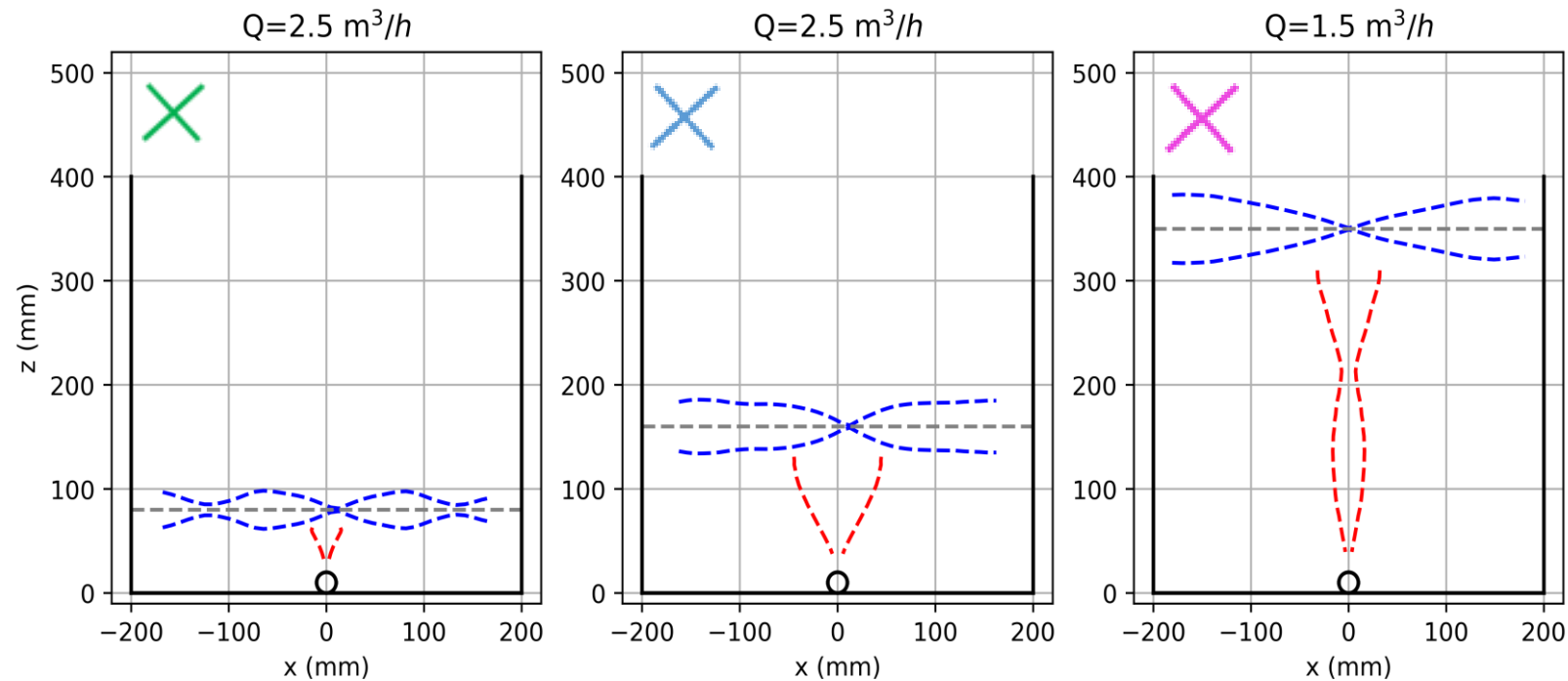


Figure 1 – *Left* : Envelopes of oscillations (from Complex Orthogonal Decomposition¹) at different heights. *Right* : Critical air flow rate vs. aspect ratio h_0/L_1

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