

Abstract Submitted  
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**Plouf** CHRISTOPHE CLANET, VIRGINIE DUCLAUX, FRANCOIS CAILLE, IRPHE - France — Plouf is the noise made by the impact of a solid sphere into a pool when air is entrained. In fact, this impact does not always entrain air and our first point is to address the criterion of entrainment. When air is entrained, a cavity is created the dynamics of which can be described by a Rayleigh-Plesset approach. We show that an algebraic equation exists to describe the dynamic of this cavity up to the pinching.

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