

Édition 2026 : Appel à projets et Journées de rencontre de la Graduate Initiative EIF.



ID de Contribution: 70

Type: **Bourse Excellence : Mobilité entrante**

Air trumpets

jeudi 2 juillet 2026 16:00 (20 minutes)

It is very common to observe air bubbles when we pour water into a glass. However, the mechanism of air entrainment by plunging jets is still a widely open question. This study will be dedicated to study the viscous version of the problem wherein a viscous plunging jet entrains a thin film of air into a pool containing the same liquid. By controlling the viscosity of the liquid, and both the jet speed and diameter, we want to characterize experimentally the thickness and the shape of the entrained air film. Such an investigation will provide the foundation to the study the criteria of film rupture which leads to air bubble formation in viscous air entrainment flows.

Master

Mécanique

Laboratoire d'accueil

LMFA

Composante ou Département Composante

MECA

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