UNIVERSITÉ CÔTE D'AZUR | ÉCOLE DOCTORALE SCIENCES FONDAMENTALES ET APPLIQUÉES

Poster teaser

INPHYNI cnrs

Buoyancy effects in vertical soap films

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Credit: Tsuneo

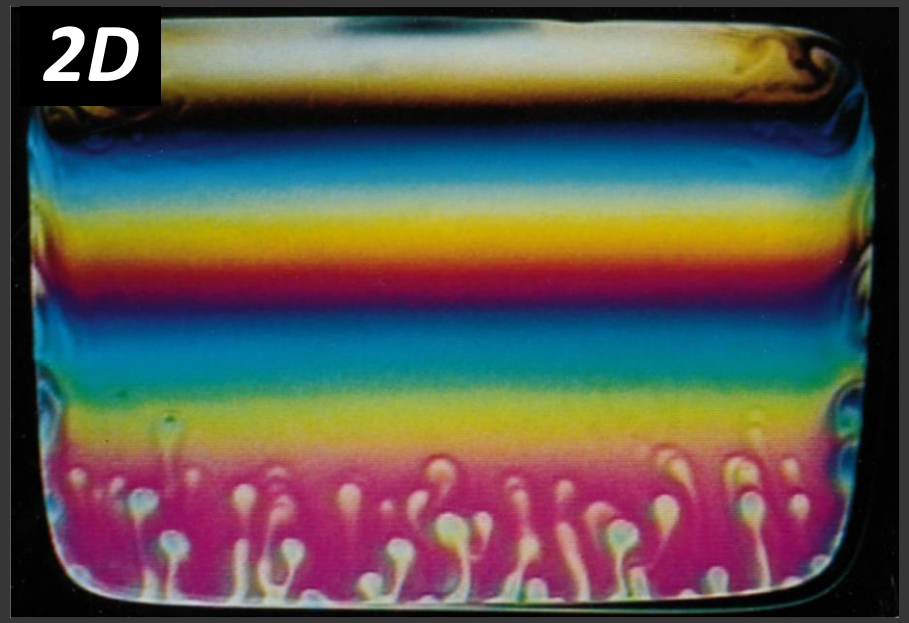
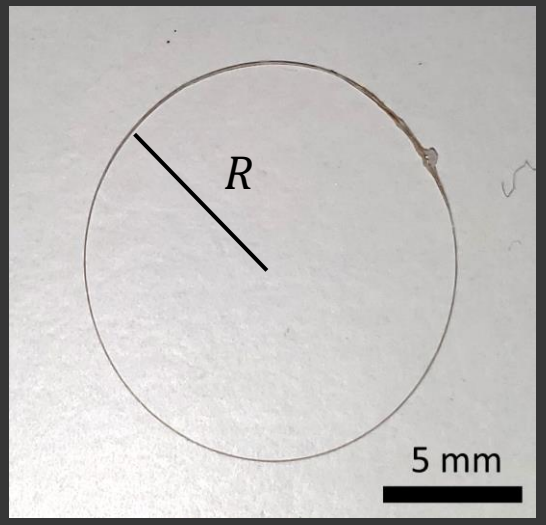
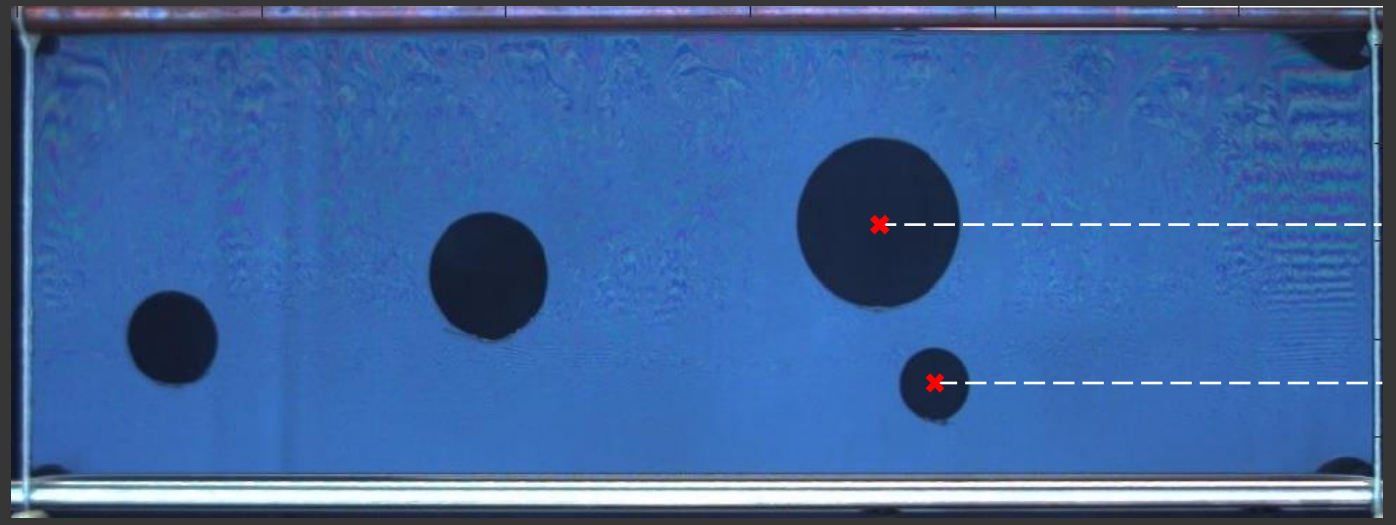


Image from Nierstrasz *et al.* 1998

How to probe buoyancy effects in soap films?

→ with a ring of hair glued on itself [1]





Mass balance between the equivalent fluid of the film and the ring:

$$m_{fluid} = m_{ring}$$

→ **Typical soap film size !**

Ring of different sizes introduced into the film

Analogy with a 2D Archimede's force

More? Come and see my poster!

[1] N. Adami. Surface tension and buoyancy in vertical soap films. PhD thesis, ULiège - Université de Liège, 2014.