Millifluidics,
1. Surface Tension
Shape of droplets... by Dr Seuss

The shape of me and other stuff

There’s a wocket in my pocket
by Curious Georges...

from Opposites
Nasa version...

French version...

Lyotropic liquids: non isotropic surface tension

P. Pieranski, P. Sotta
Irradiated materials

Helium bubbles inside steal irradiated by $\alpha$ rays

J. Chen et al.
Surfaces of “0” curvature

catenoid
Dep. Math., Univ. Trento

helix
C. Isenberg
Champagne bubbles

G.Liger-Belair, P.Jeandet
Imperfections on the glass...

G.Liger-Belair, P.Jeandet
Nucleation

$\text{CO}_2$ molecules diffuse through the meniscus of the gas pocket as long as its radius of curvature exceeds the critical radius $r_c$ defined in eq. (2).

Formation and growth of a bubble anchored on its nucleation site.

Cycle of period

$T = 1/f$

Bubble detachment

$F_B = \frac{4}{3} \pi R^3 \rho g$

$F_G = 2 \pi R \rho g \sin \phi$

G. Liger-Belair, P. Jeandet