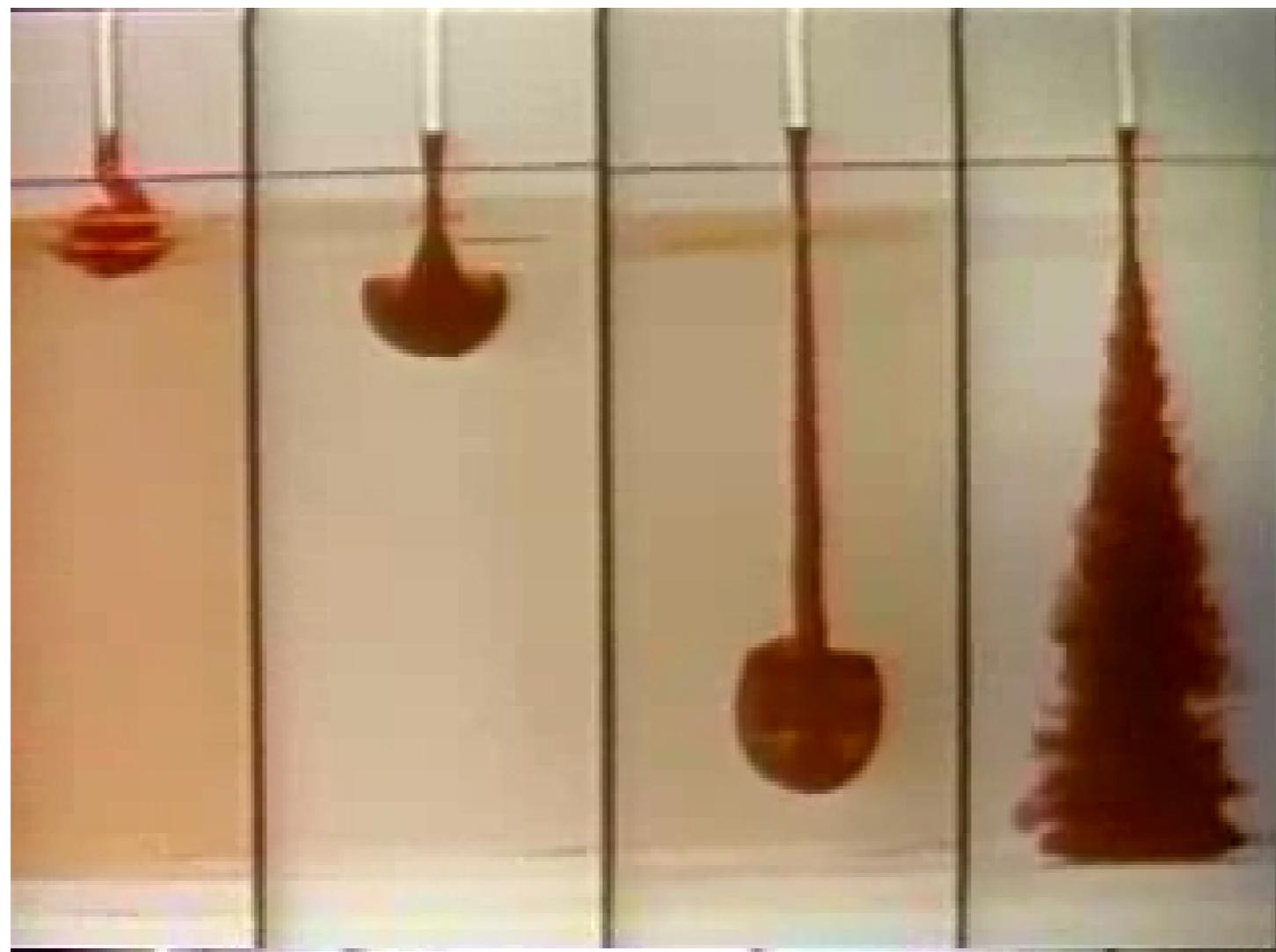
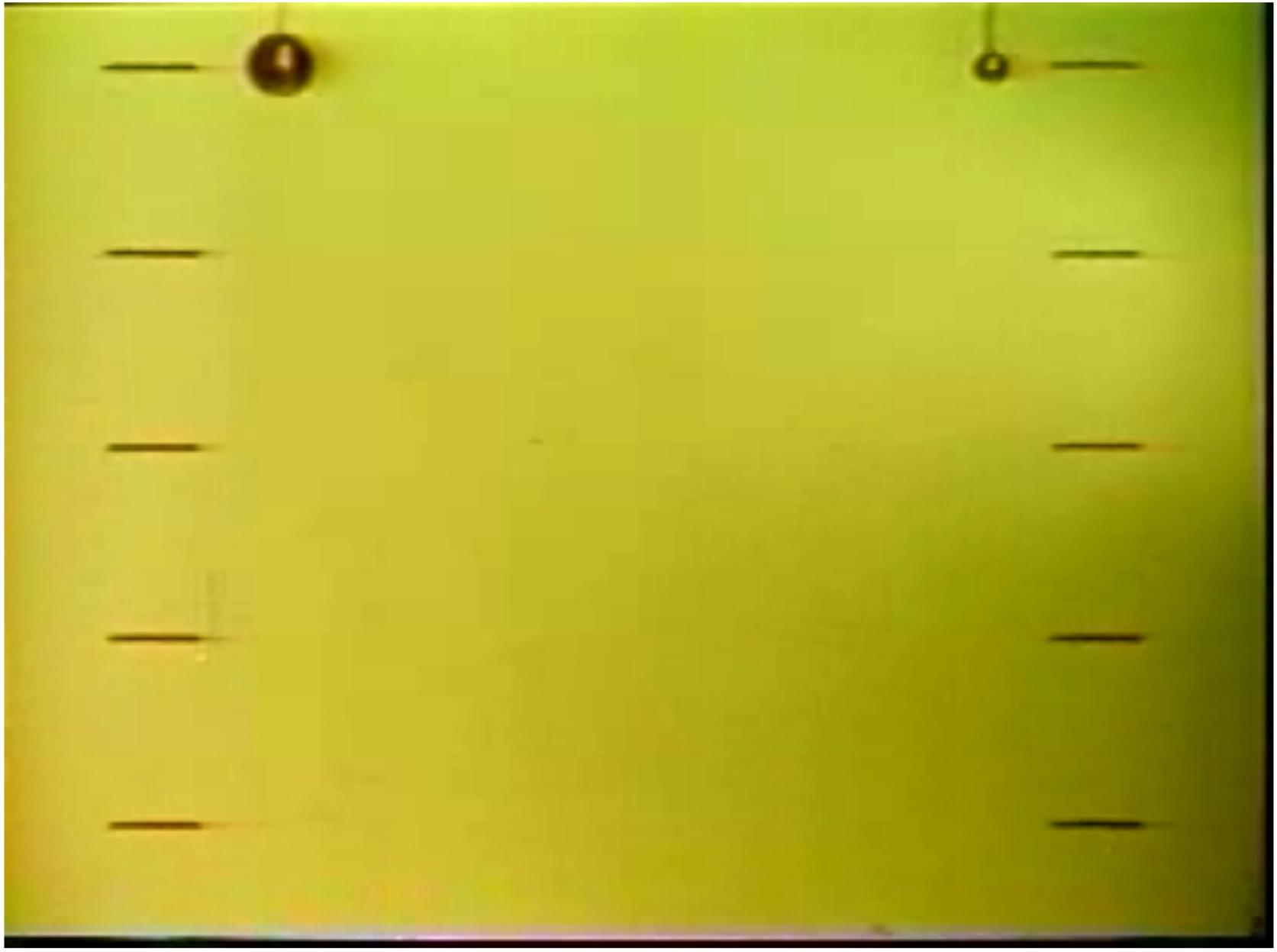


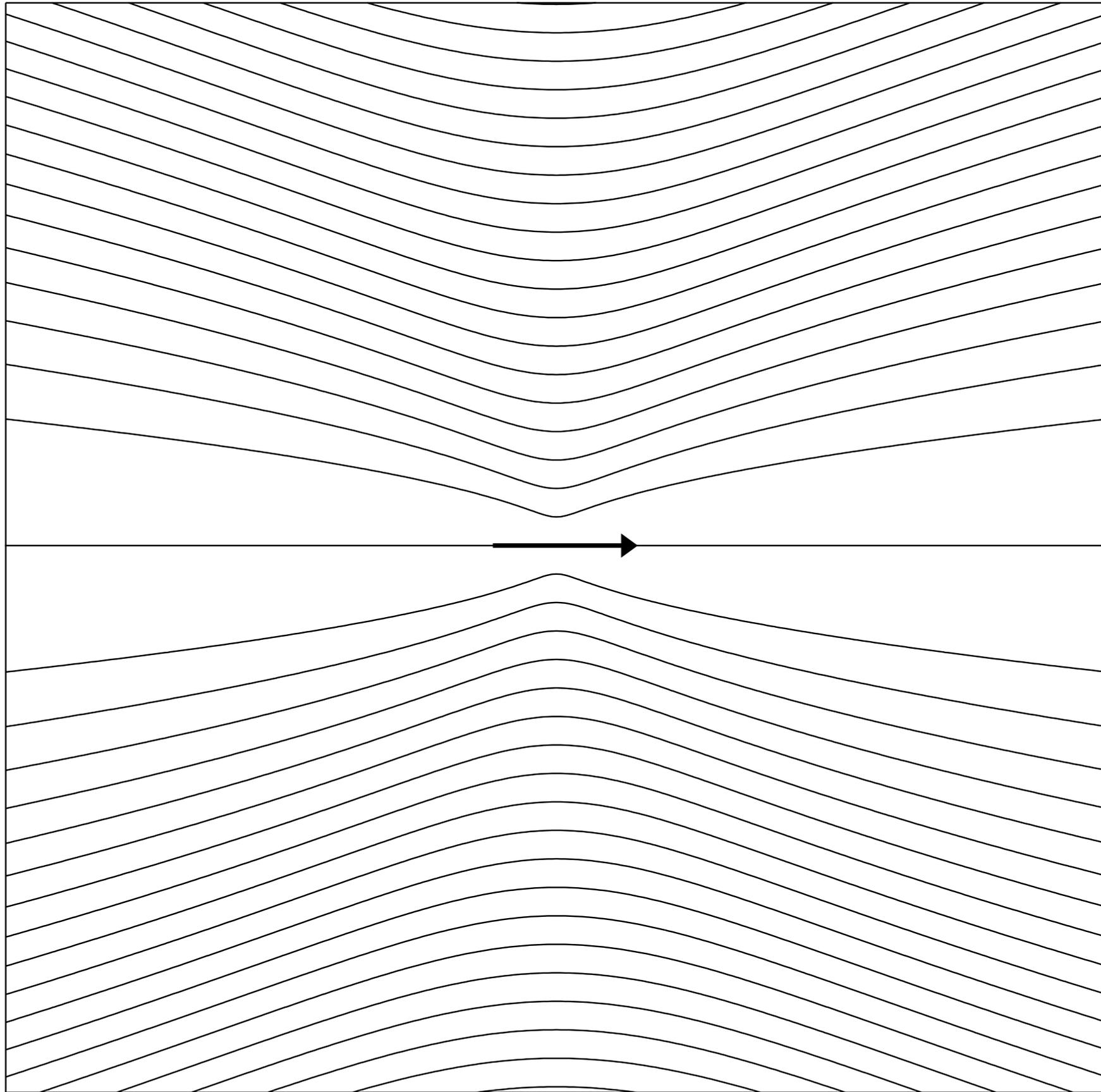
Un monde sans inertie



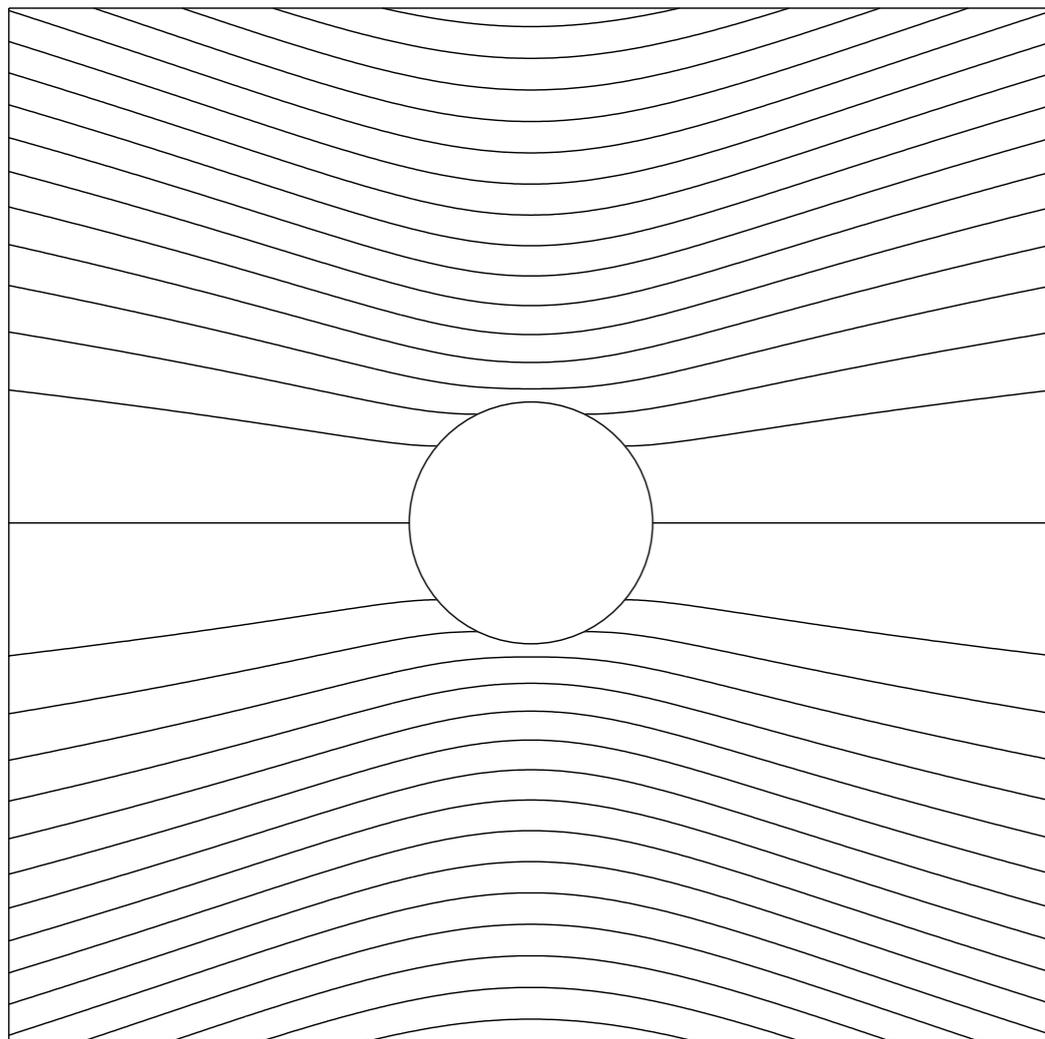
0,000000000 | N

| nN

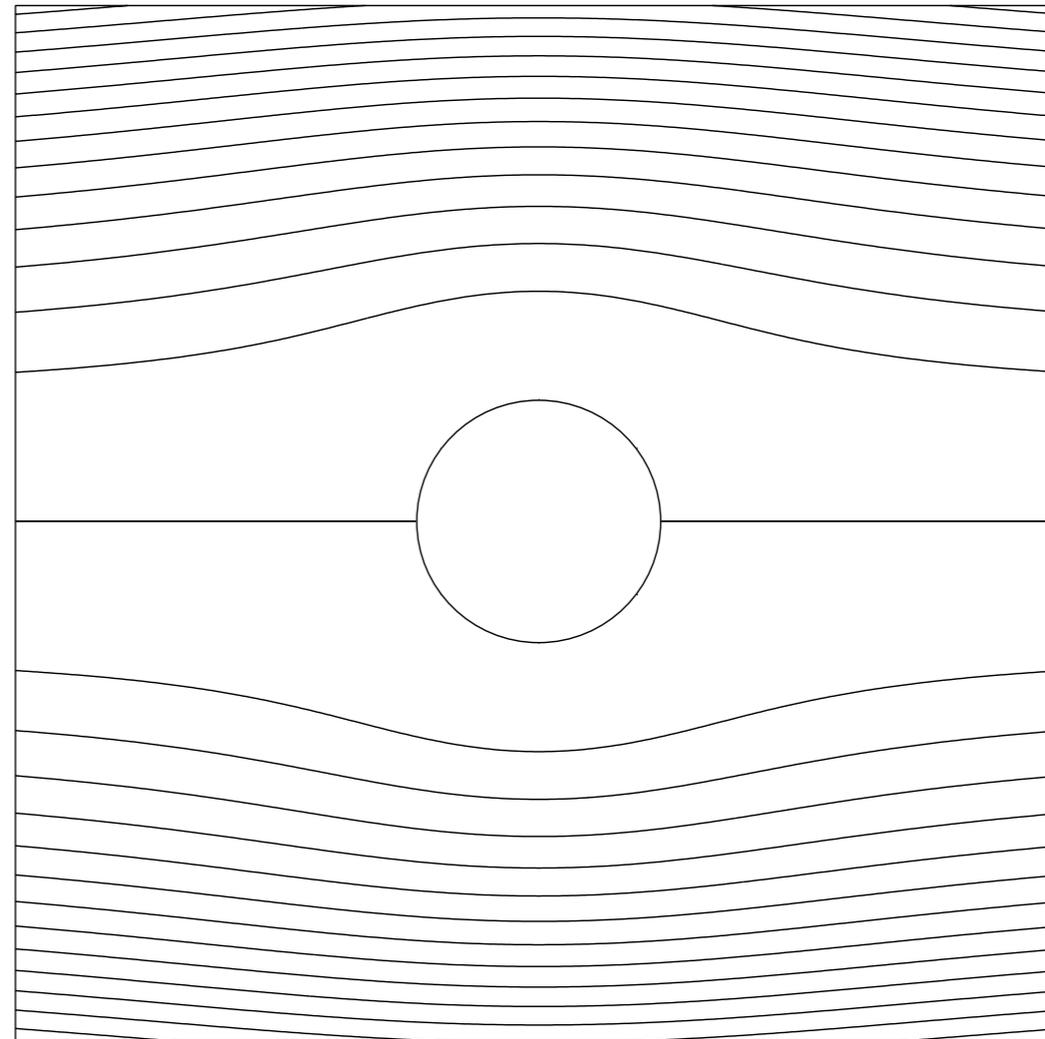




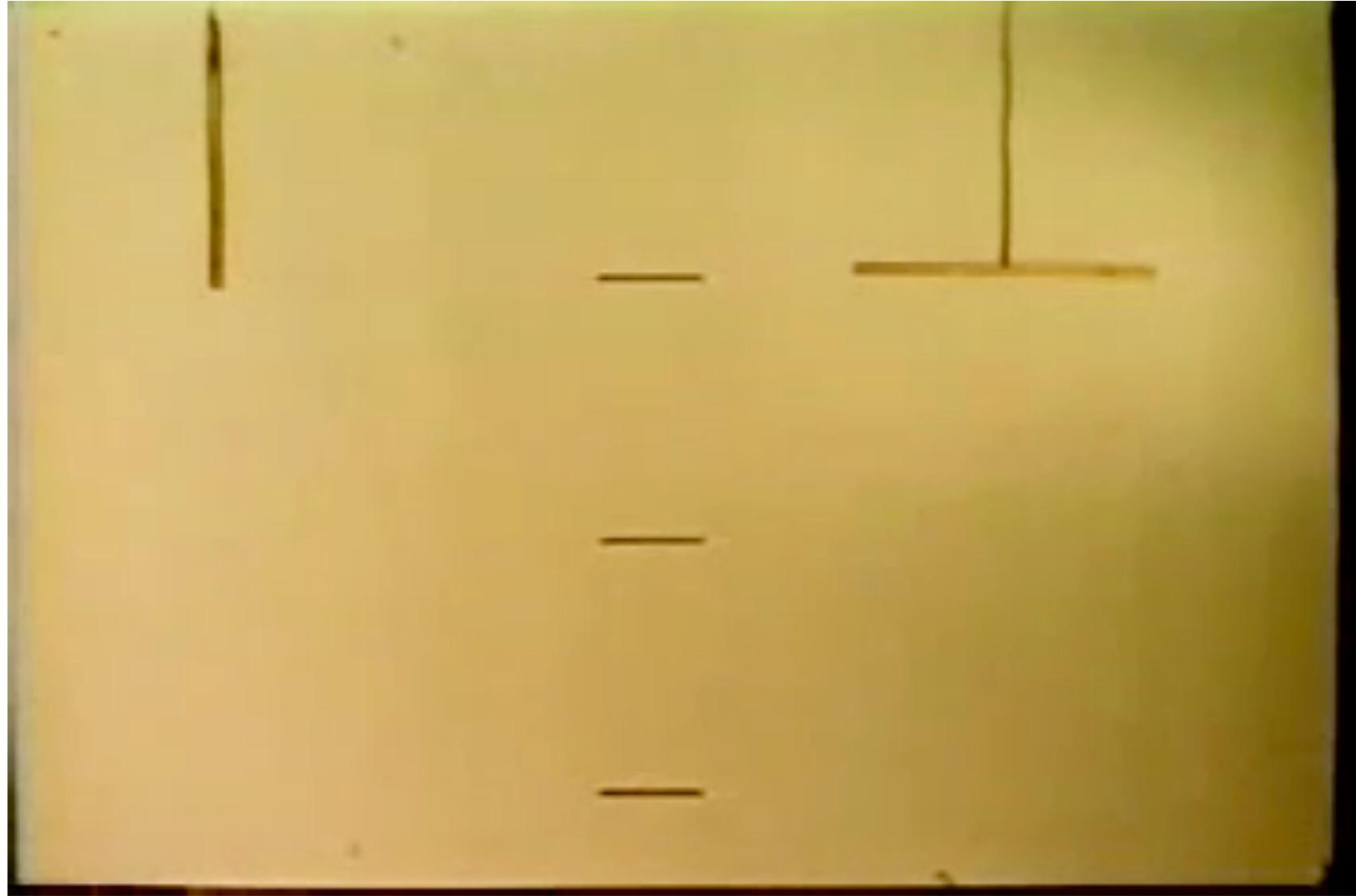
“Stokeslet” lignes de courant

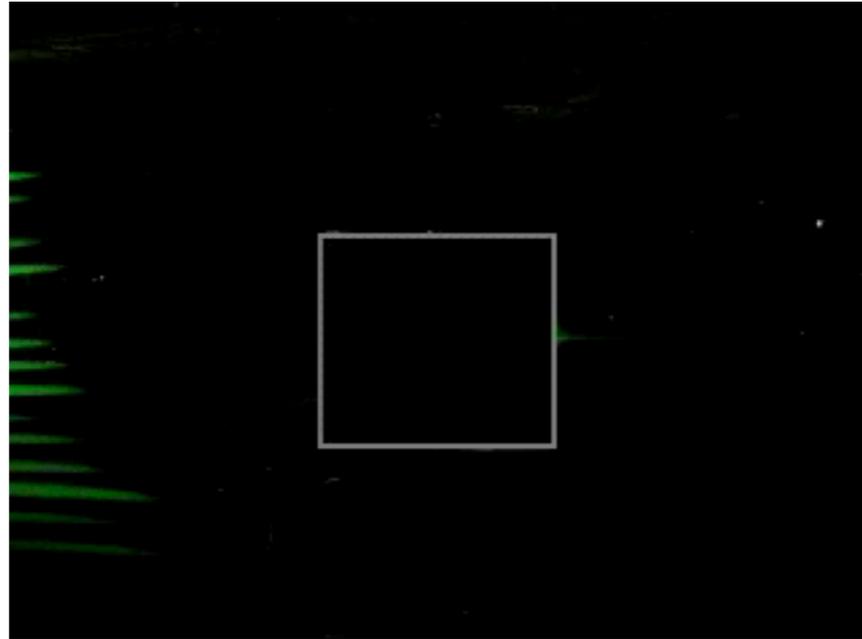


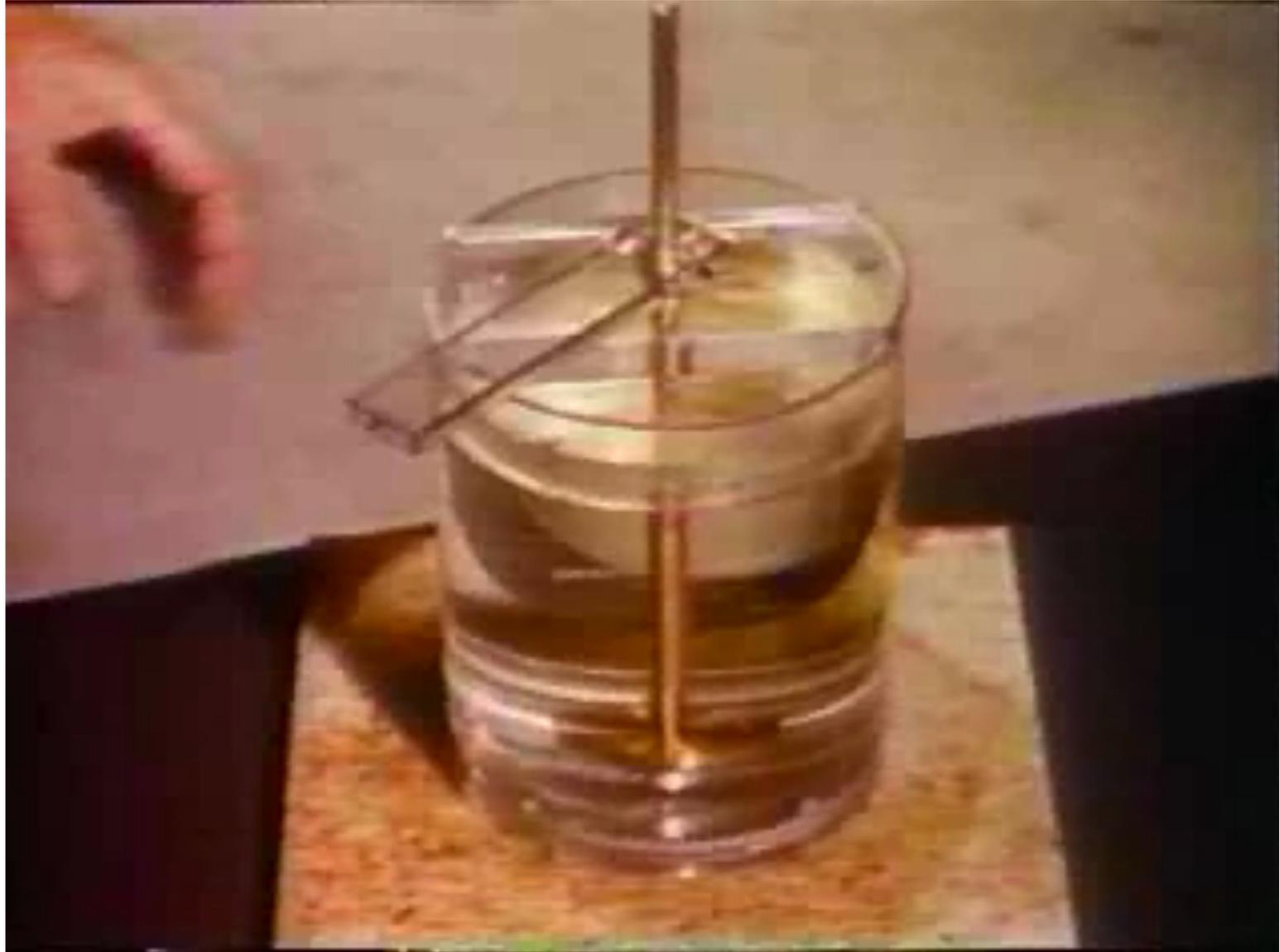
Fluide immobile à l'infini

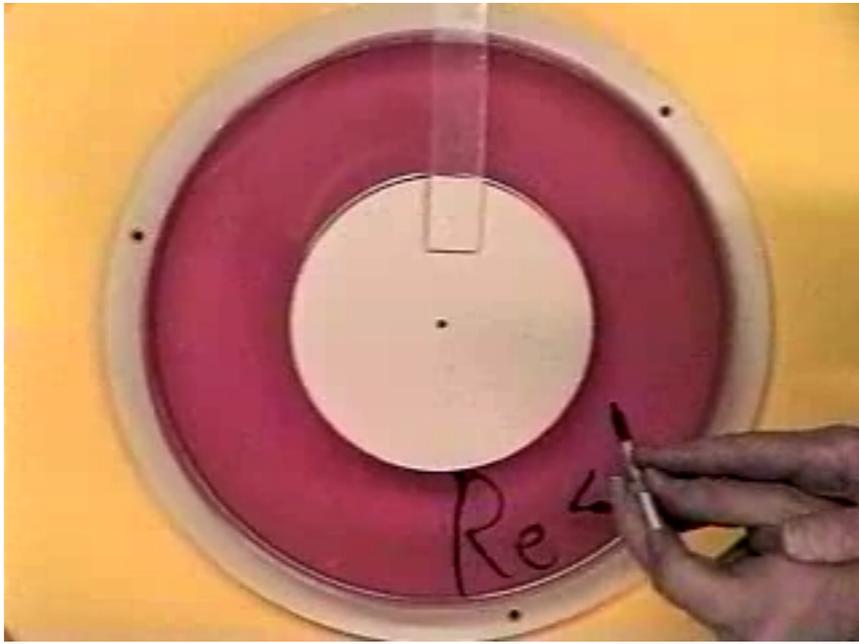


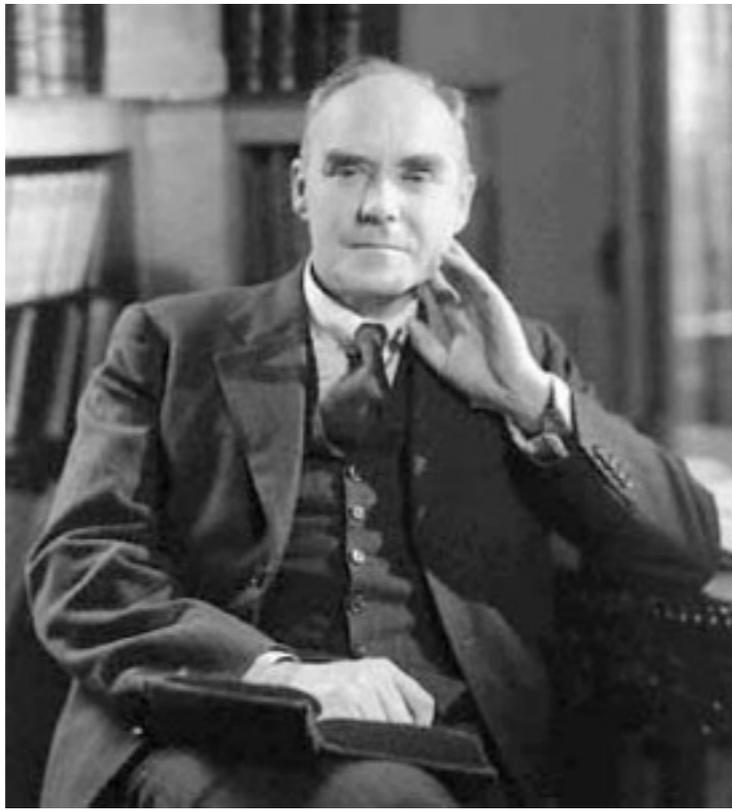
Sphère immobile



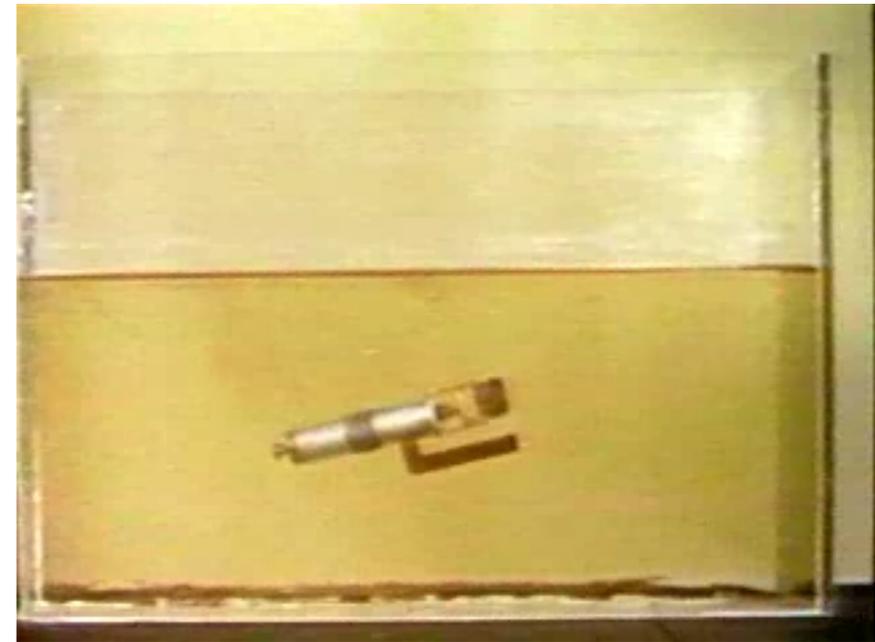








G. I. Taylor

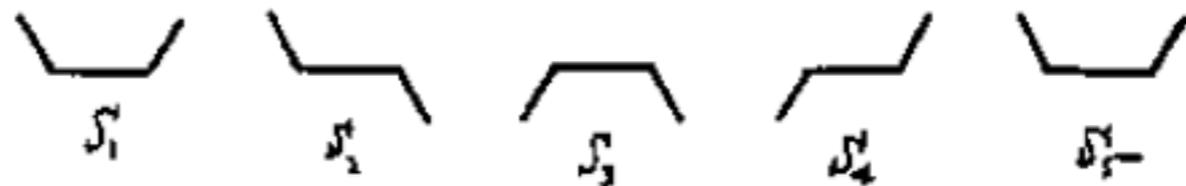
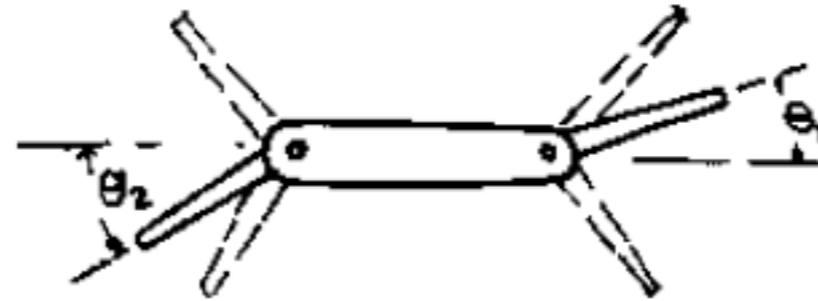


Le théorème de la coquille St Jacques

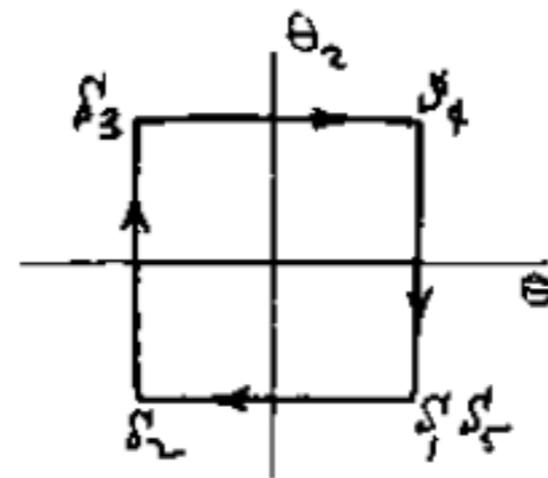


The Scallop Theorem

I seul degré de liberté :
réversibilité imposée



2 degrés de liberté :
possibilité de briser la
symétrie +t/-t



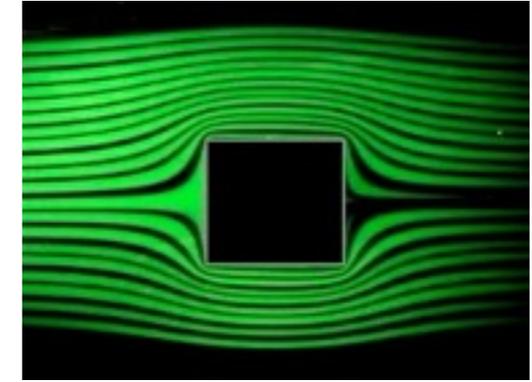
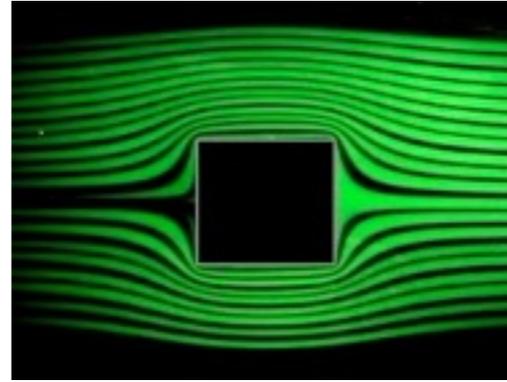
E. Purcell, life at low
Reynolds number

Équation de Stokes

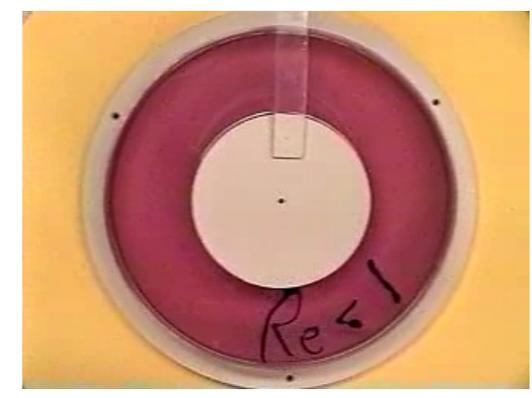
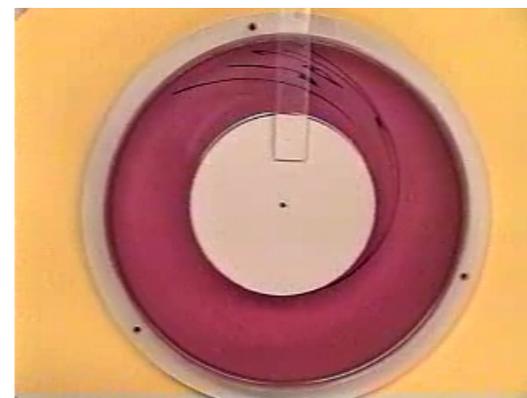
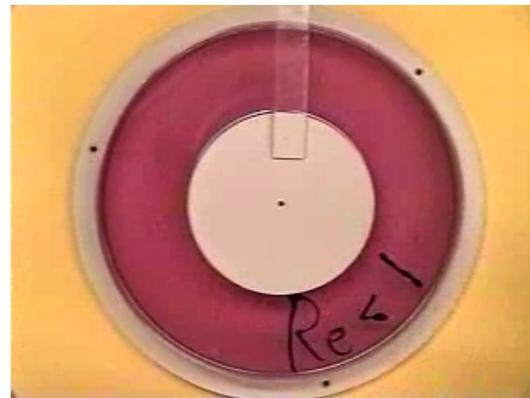
$$\eta \Delta \mathbf{u} = \nabla p$$

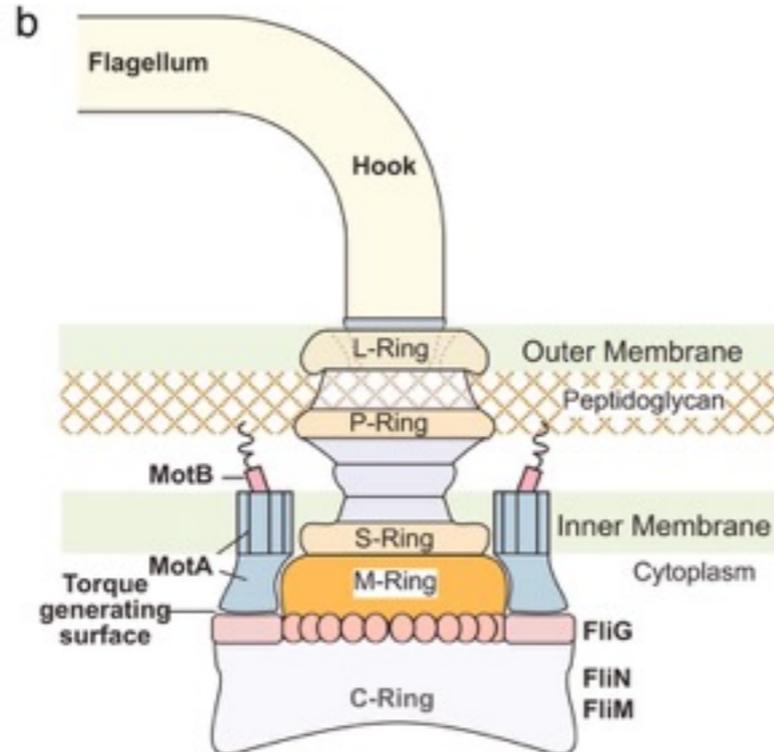
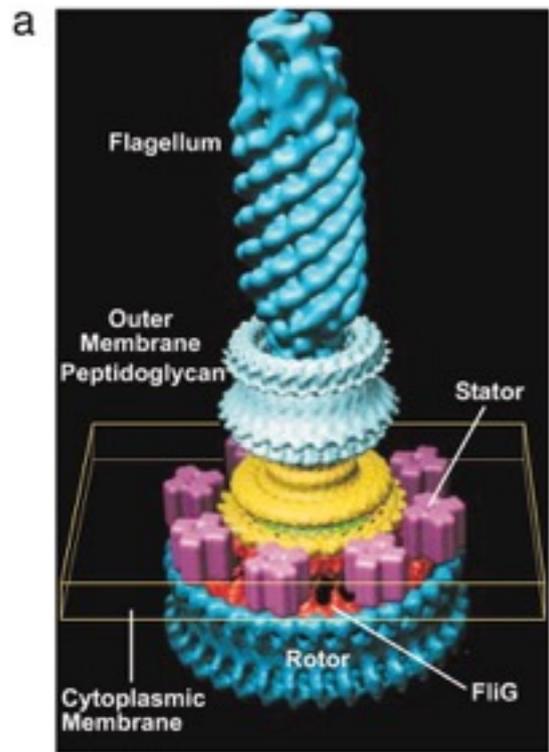
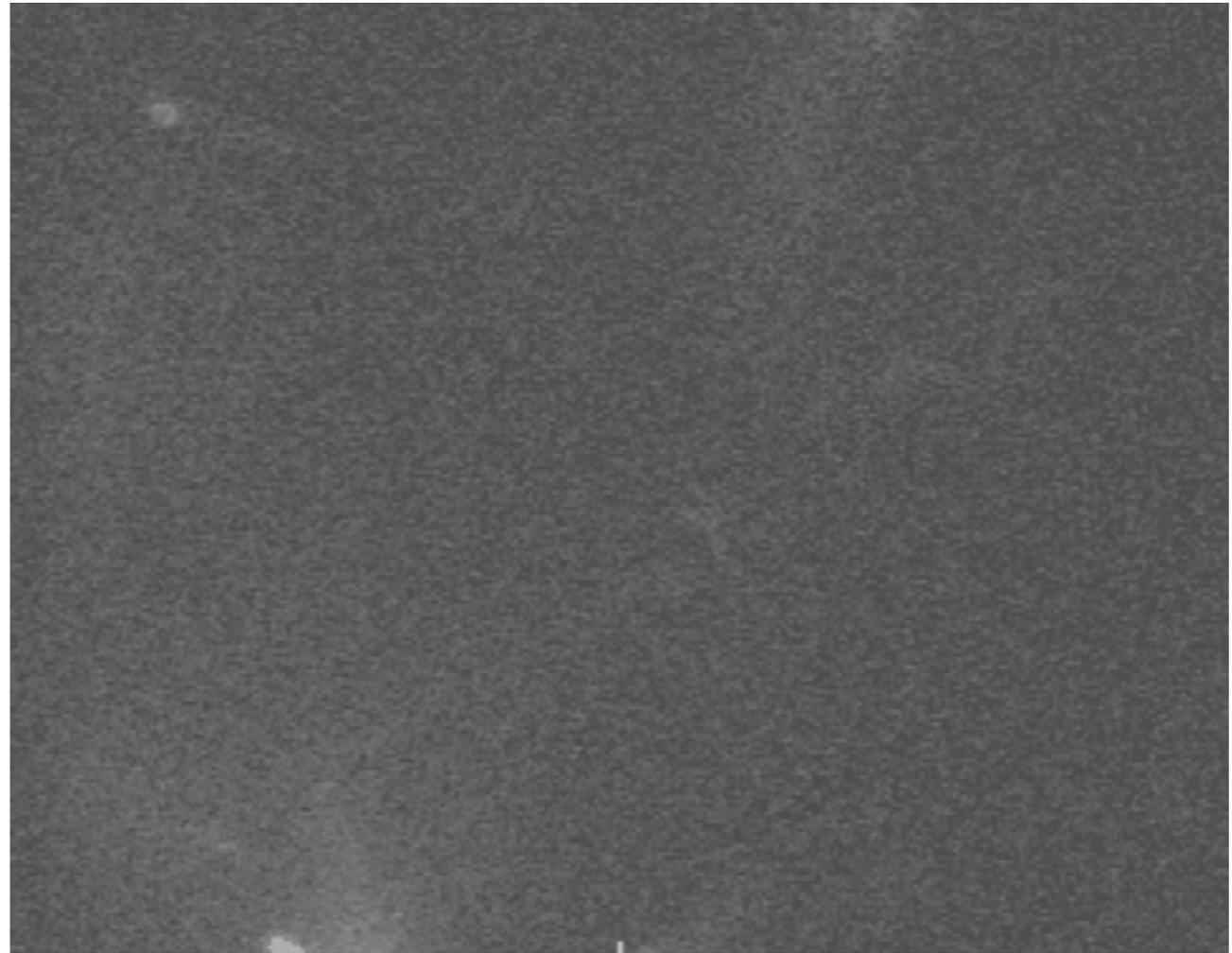
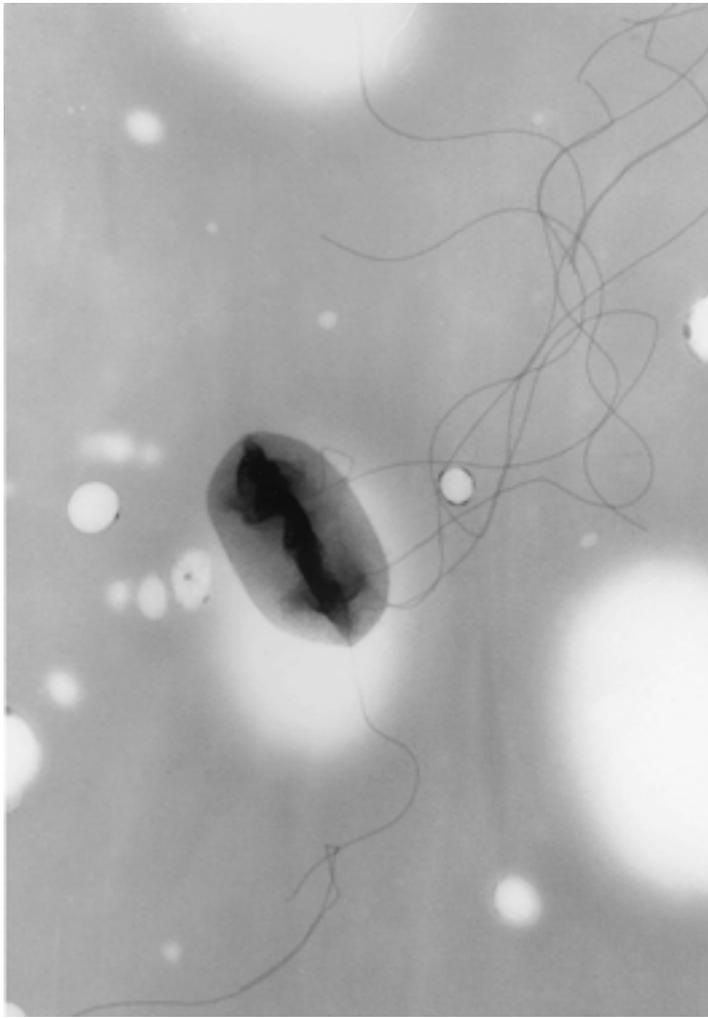
$$F \propto \eta U L$$

$$\mathbf{u}_{sphere} \propto \frac{1}{r}$$

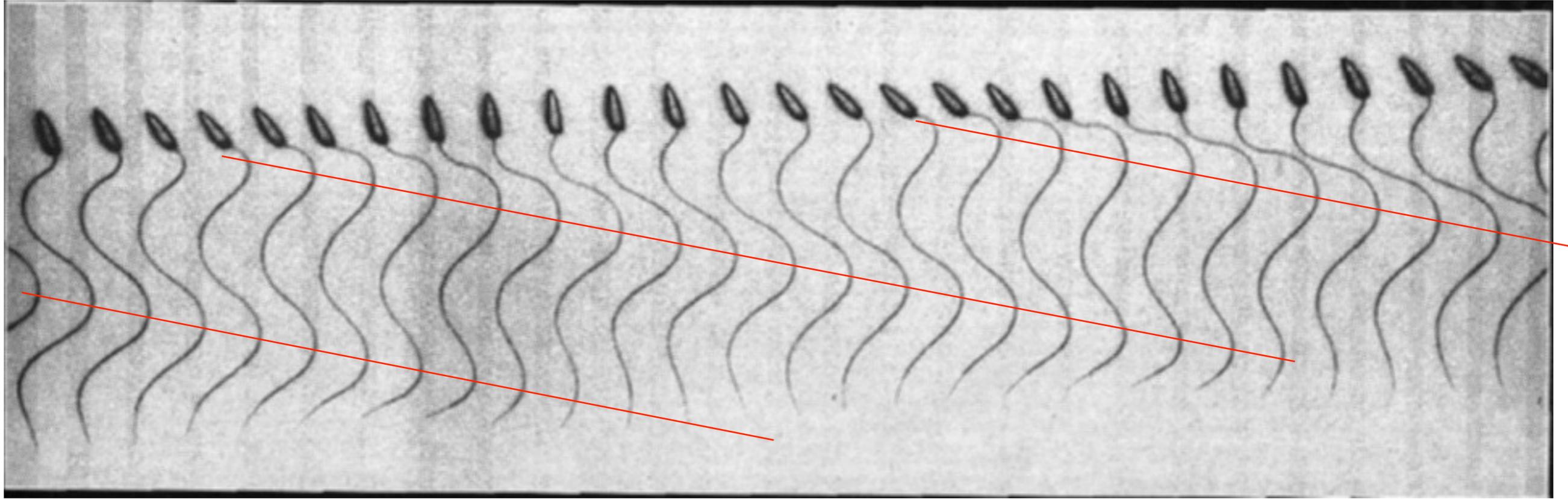


Réversibilité cinématique

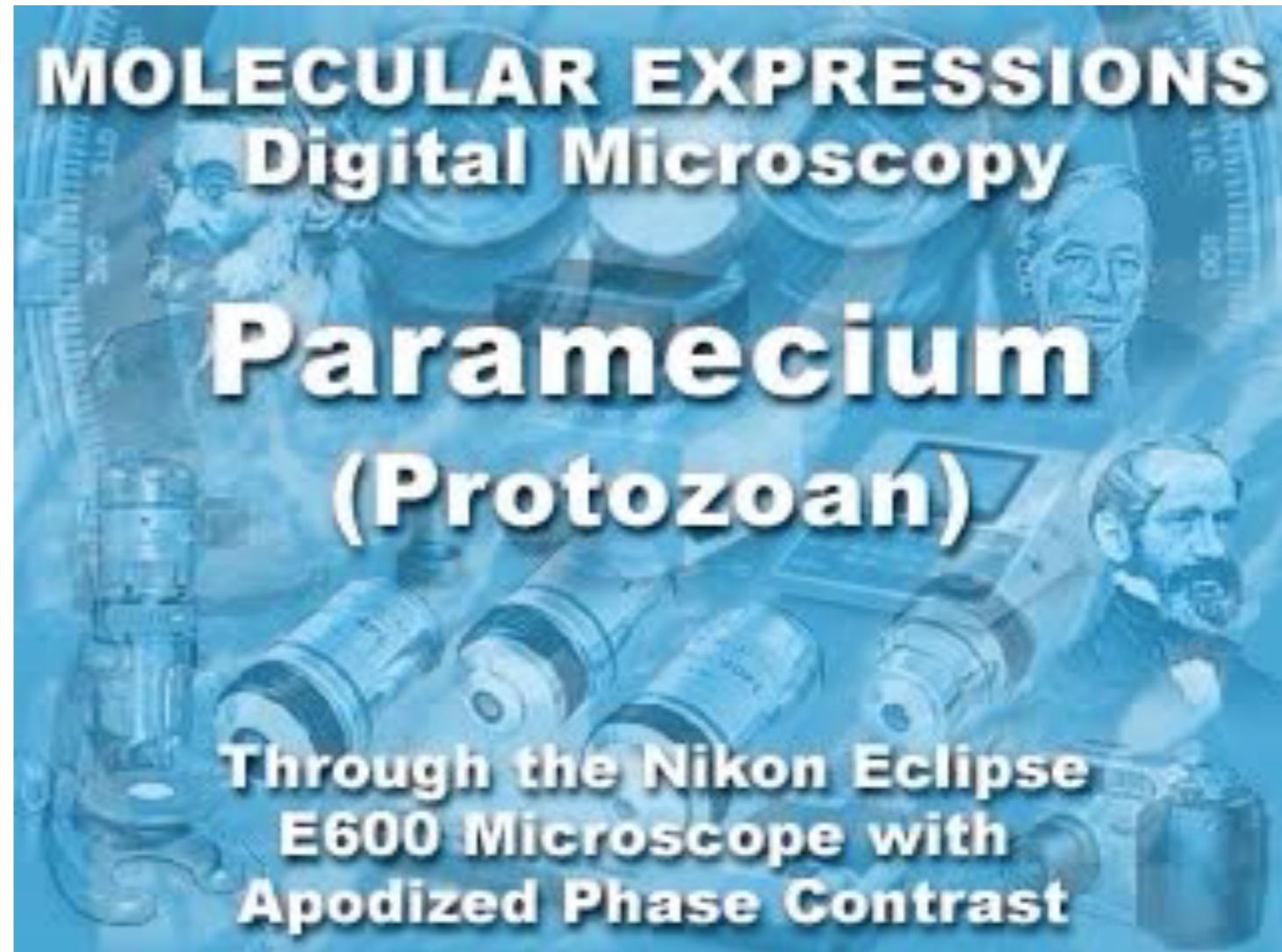
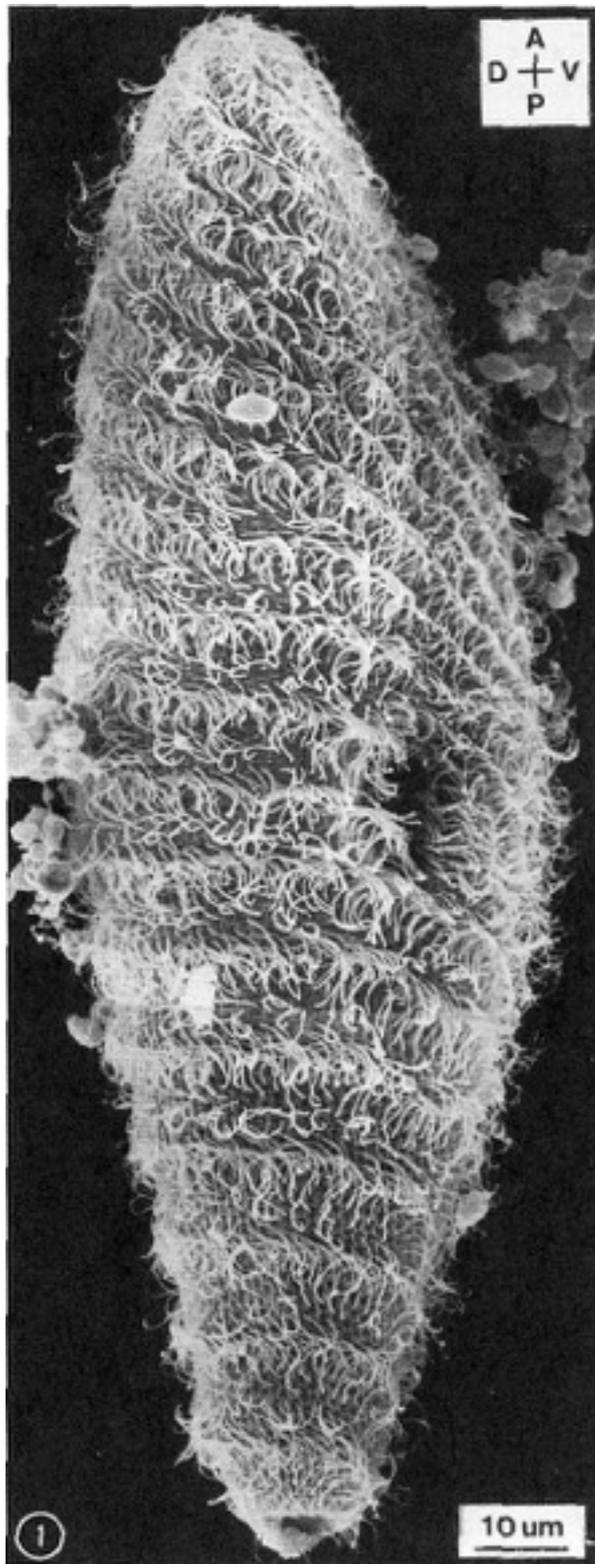




Escherichia Coli

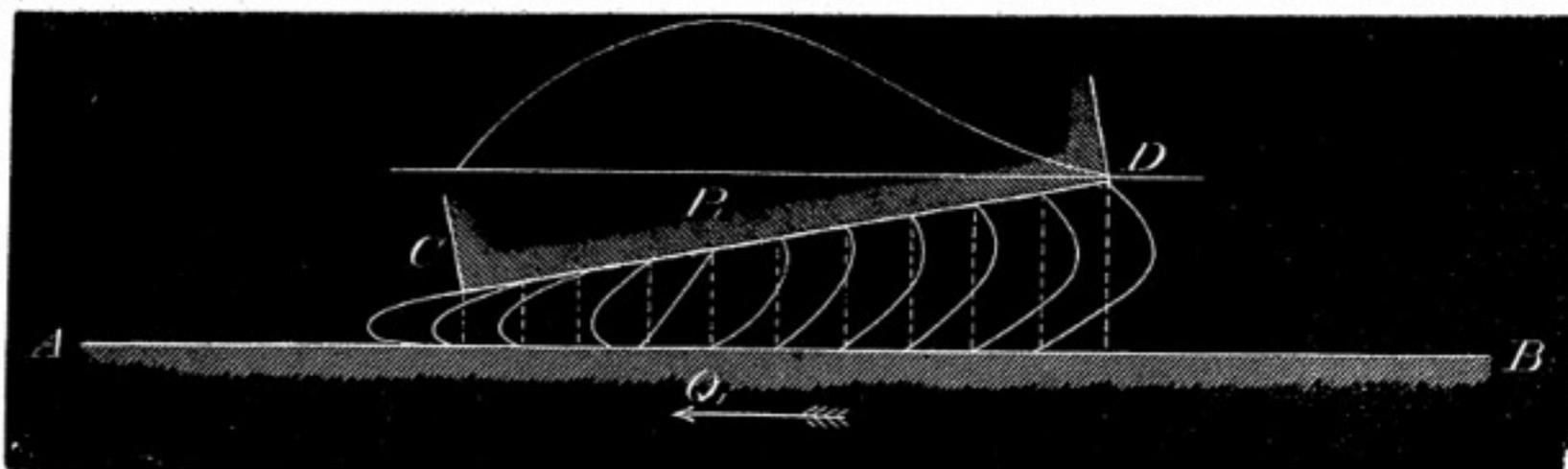
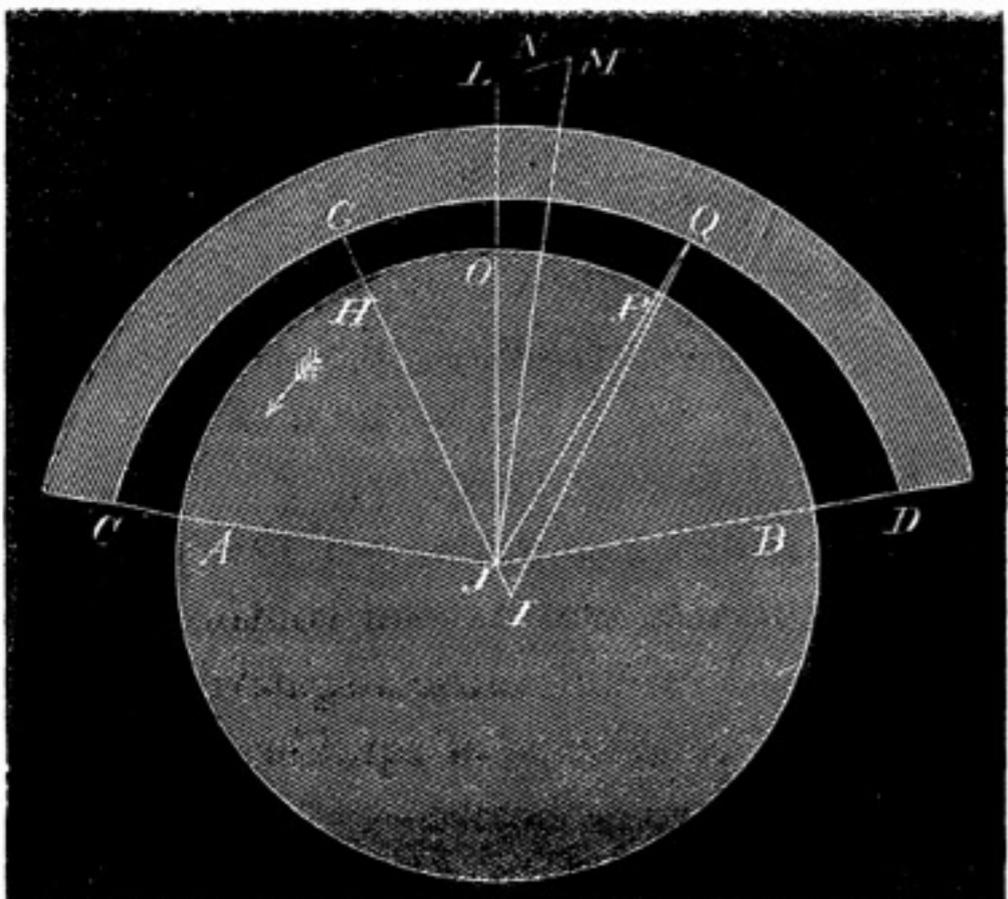


Mouvement collectif des cils

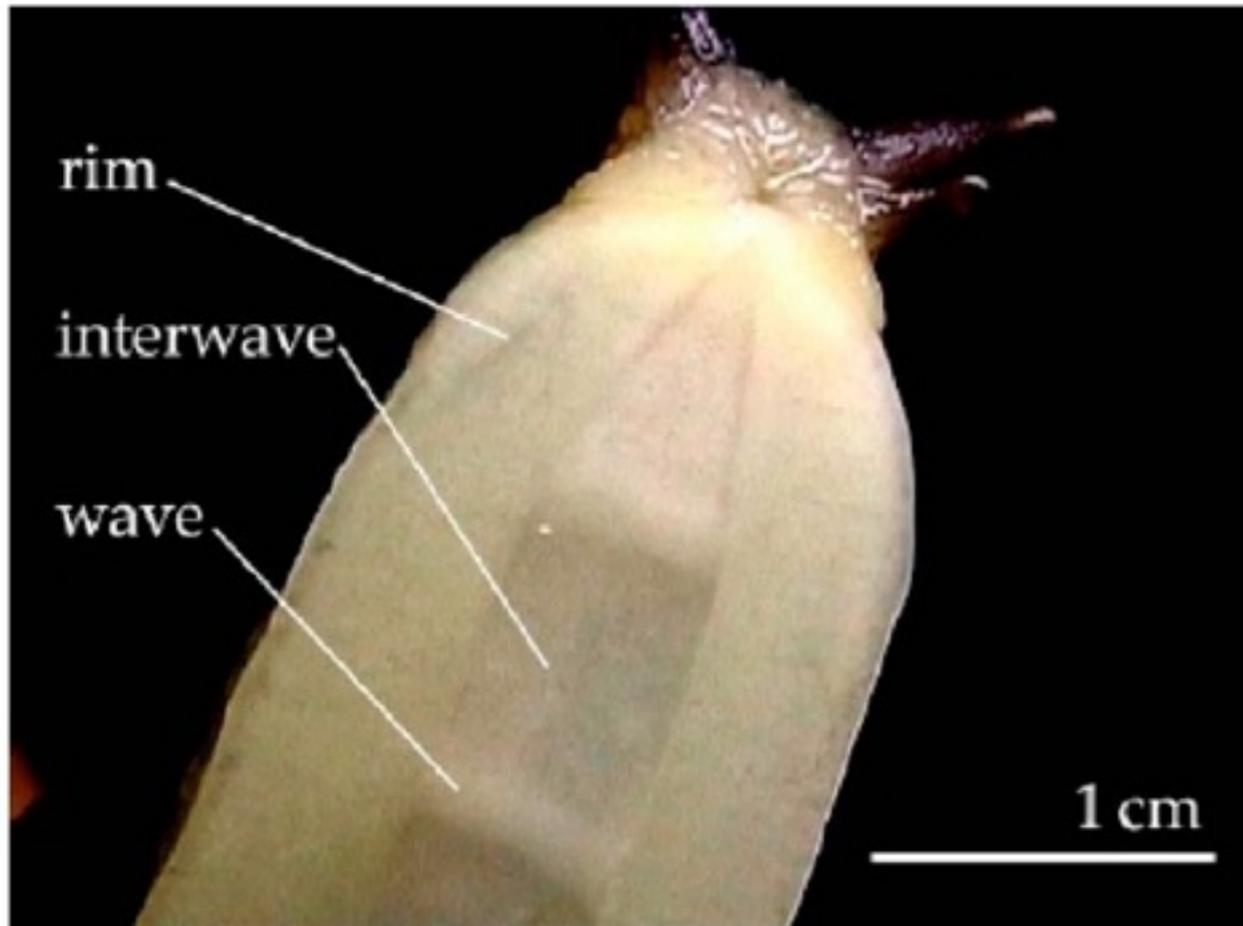


IV. *On the Theory of Lubrication and its Application to Mr. BEAUCHAMP TOWER'S Experiments, including an Experimental Determination of the Viscosity of Olive Oil.*

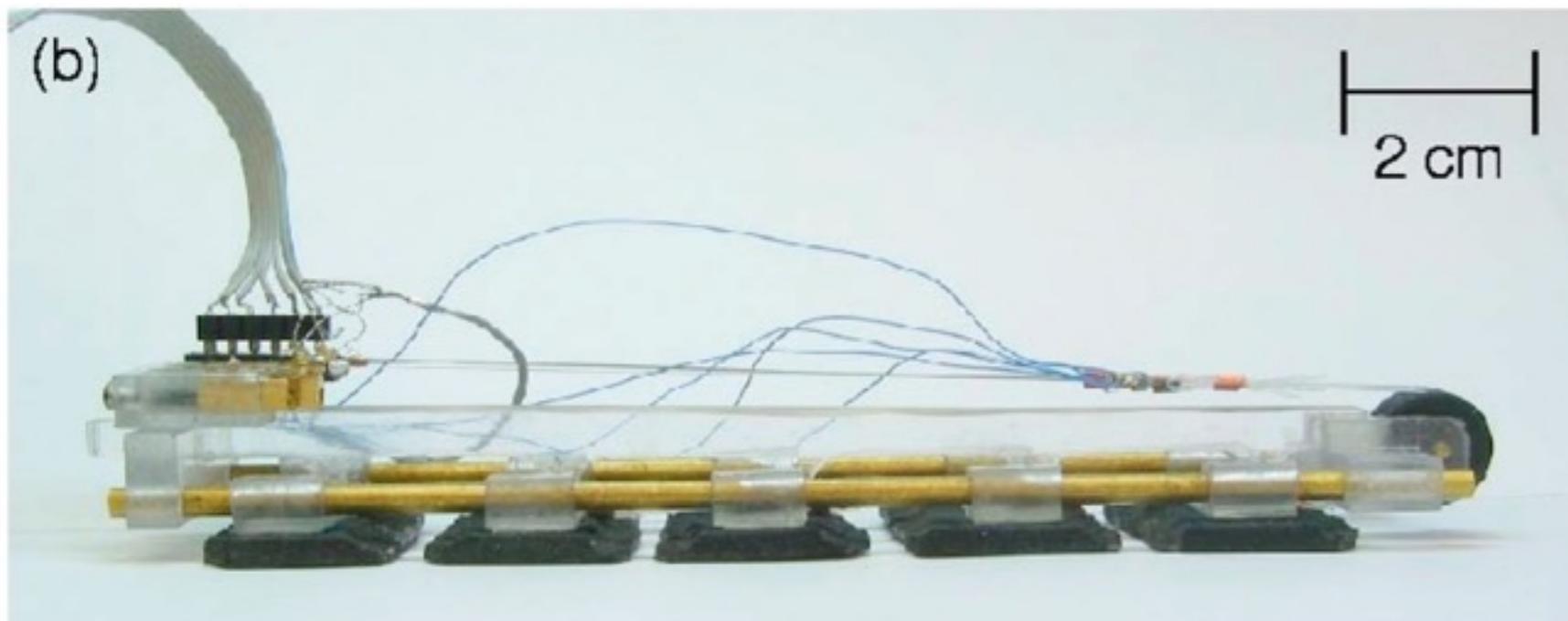
By Professor OSBORNE REYNOLDS, LL.D., F.R.S.



Deux créatures se déplaçant grâce à la lubrification



Limus maximus



Robosnail2

Écoulements de lubrification à surface libre

