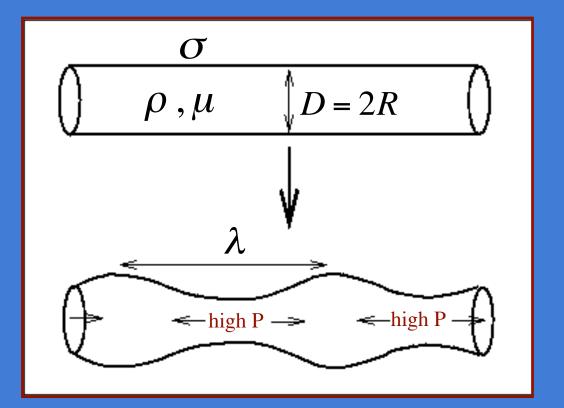
18.357: Lecture 12

#### Variations on the theme of Rayleigh-Plateau

**& Sheet retraction** 

# **Viscosity and the Rayleigh-Plateau Instability**

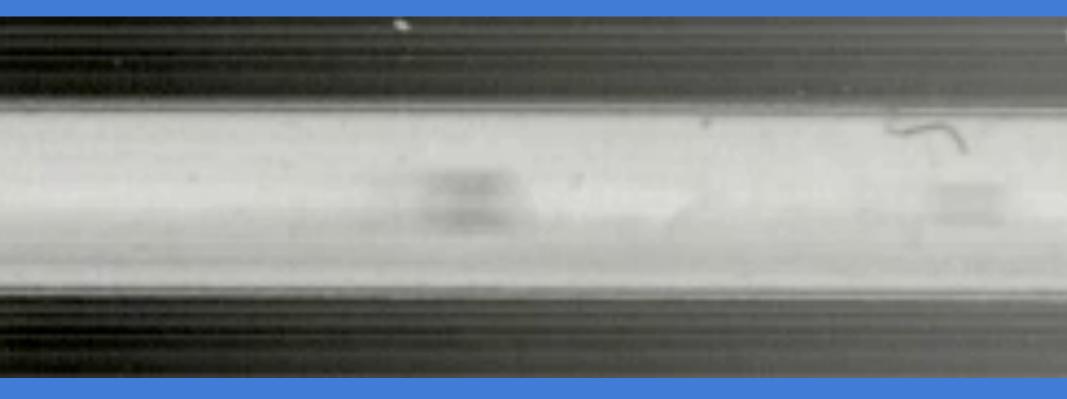


pinch-off depends on Ohnesorge number Oh = organization of the second seco

# **Coating a wire**



## **Bubble formation within a hose**



# **Fluid sheets**

#### A burst soap film

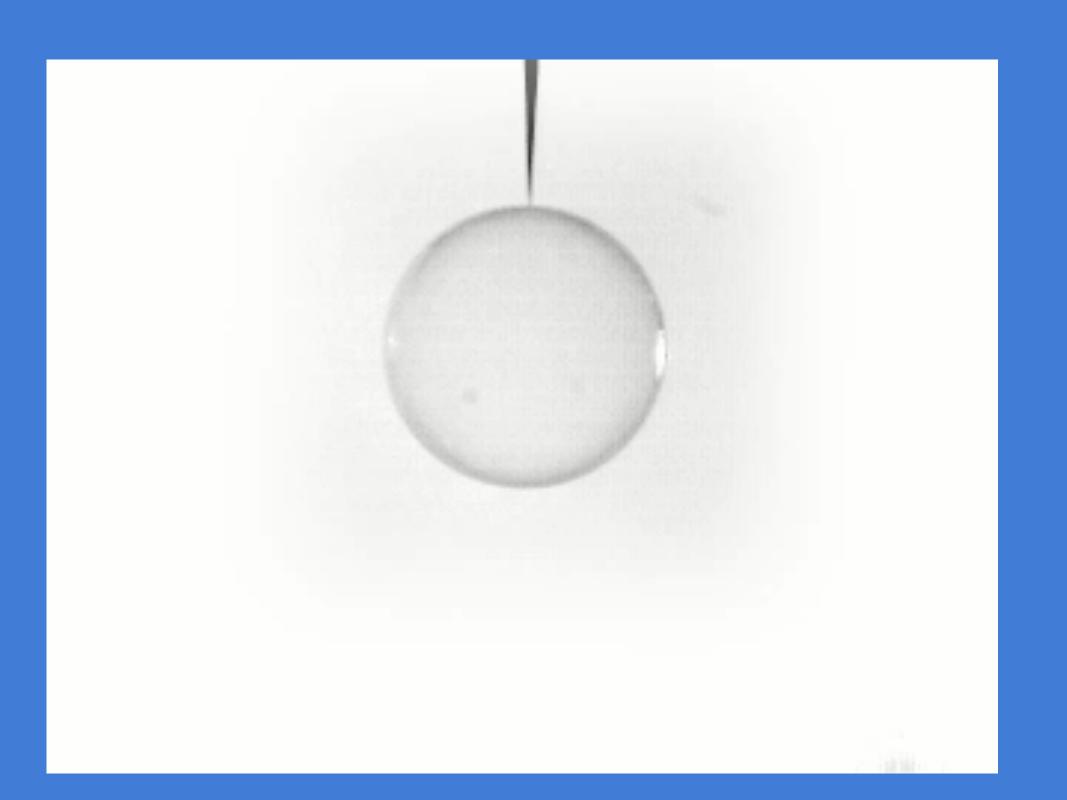


How fast does the rod move?

#### A bursting bubble



Speed of retraction? Film shape?



# **Another look at film retraction**



### A self healing bubble



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Discharging Fukushima's legacy p.621 New tools for neuromodulation win Science & PINS prize g. 637

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# **BUBBLE RUPTURE**

Surface tension drives the wrinking and collapse in viscous fluids p.635



