



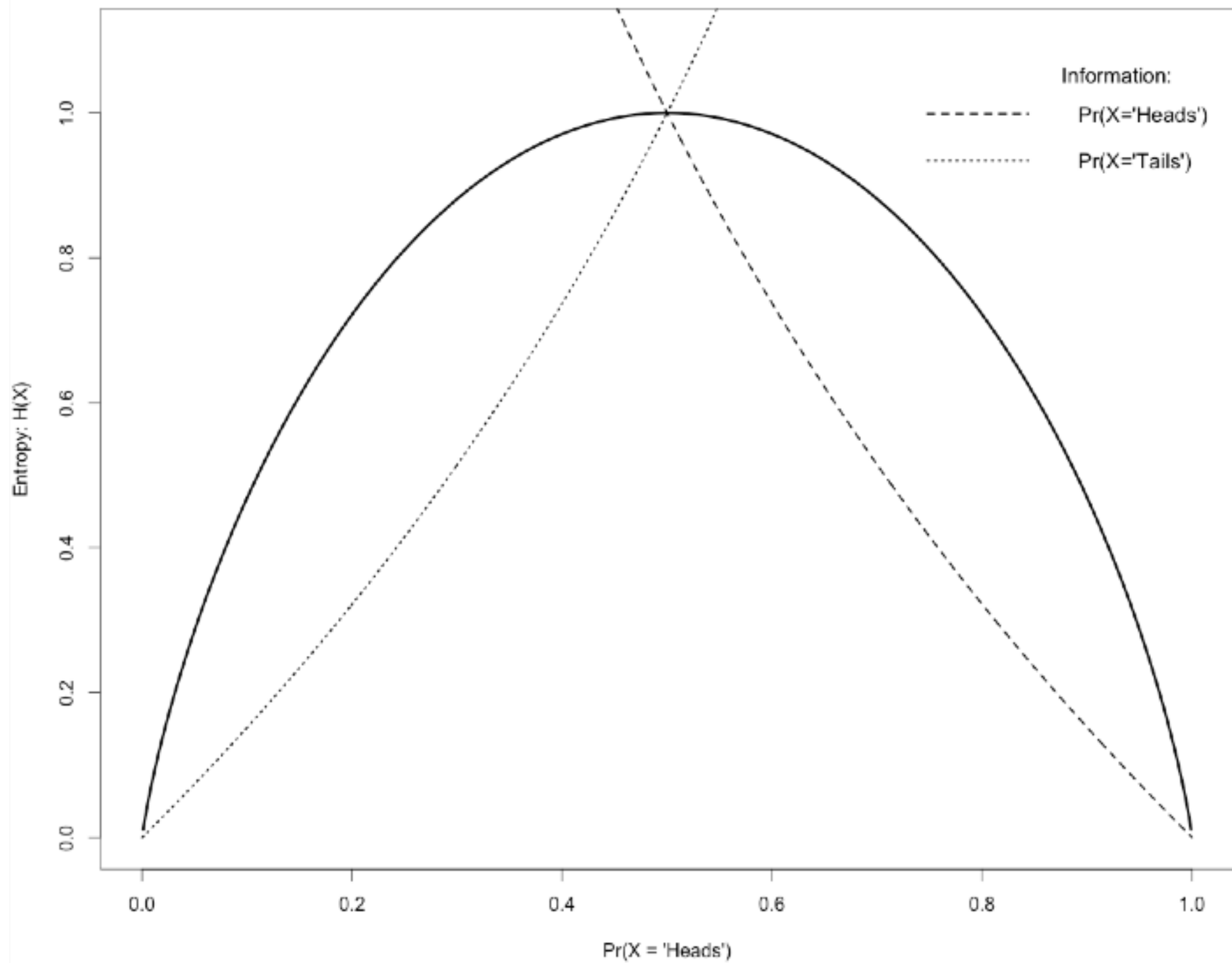






caption





Entropy

Information

Uncertainty

Redundancy

Probability

Symmetry  
breaking





2

4



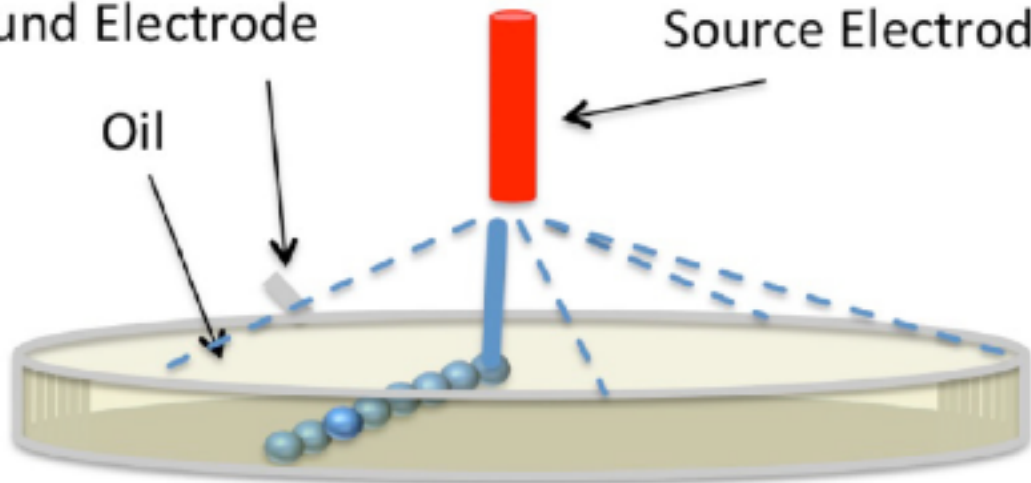
Radboud University Nijmegen



Ground Electrode

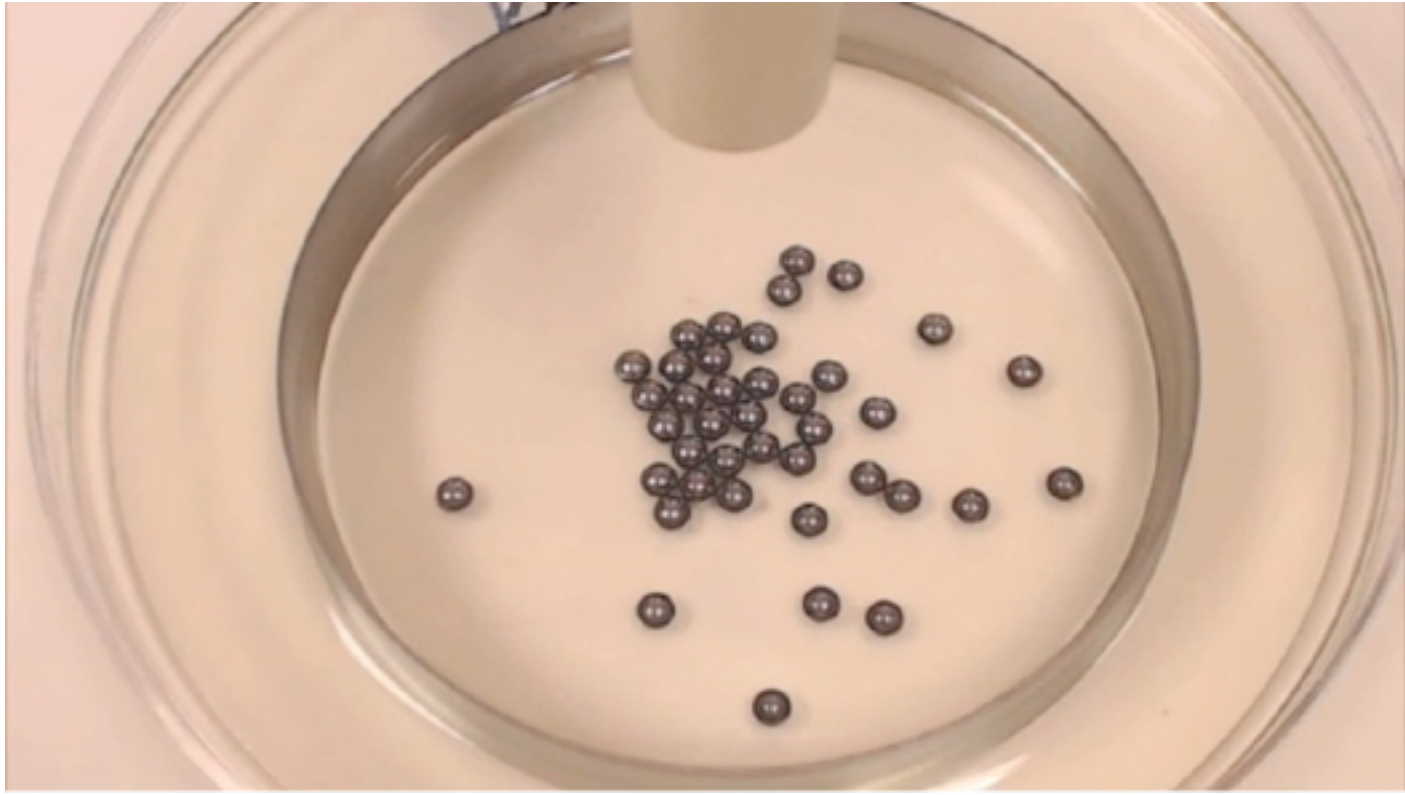
Source Electrode

Oil



# Complex behavior (physical) principles & laws (bottom-up)







**self-organisation:**

**Tree formation**

Kondepudi D, Kay B, Dixon J. (2017). Dissipative structures, machines, and organisms: A perspective. *Chaos*, 27(10), 104607.