MPIDS Colloquium

MAX-PLANCK-GESELLSCHAFT

Wetting of liquid drops: When surface tension is not constant

Prof. Jacco Snoeijer

Physics of Fluids group,
University of Twente,
Enschede, The Netherlands

The equilibrium contact angle of a drop on a solid substrate is governed Young's law, involving the surface energies of the liquid and of the solid. In the presence of surfactants, however, these surface energies are not constant and the classical derivation of Young's law no longer applies. The same holds for wetting on soft solids, where surface energy depends on strain (known as the Shuttleworth effect). Here we explore how the laws of wetting are affected when surface energies are coupled to additional fields, and how this can lead to dynamical instabilities.

Wednesday, November 07th, 2018 at 2:15 pm

MPIDS, Seminar room 0.79, Am Faßberg 17, Göttingen

Max Planck Institute for Dynamics and Self-Organization
Dynamics of Complex Fluids
Dr. Stefan Karpitschka
Email: stefan.karpitschka @ds.mpg.de, Phone: +49-(0)551/5176-262
Am Faßberg 17, 37077 Göttingen, Germany