

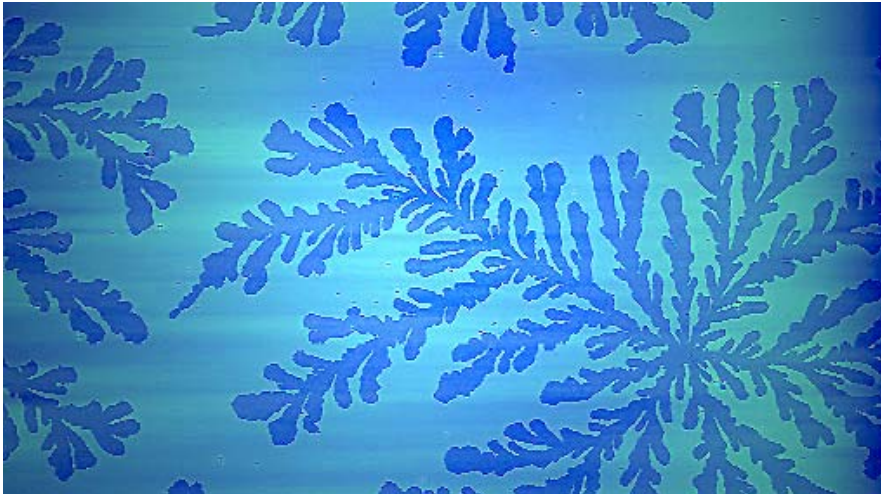
Seminar

Dr. Hans Riegler

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Phase transitions and transport phenomena in planar confined systems

The confinement of a system influences its phase transition behavior because of interfacial contributions to the free energy. We investigate this with molecularly thin films and nano size aggregates at solid/gas interfaces. It will be demonstrated that the interplay between phase transition, wetting properties and nucleation barriers leads to a variety of interesting (and sometimes unexpected) consequences, such as the broadening of phase transitions, size-dependent contact angles (“line tension effect”), “running” droplets, whose direction and speed of movement can be controlled, nucleation barriers for melting, and the delayed coalescence of sessile droplets of completely miscible (!) fluids .



Wednesday, November 9, 14h15

Hörsaal Makromolekulare Chemie, Stefan-Meier-Str. 31

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