EINLADUNG

zum Vortrag
von

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CO₂ condensation onto alkanes: Unconventional cases of heterogeneous nucleation

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Dienstag, 9. April 2019, um 17:30 Uhr

Ort: Lise-Meitner-Hörsaal, Fakultät für Physik, Universität Wien,
1090 Wien, Strudlhofgasse 4 / Boltzmanngasse 5, 1. Stock

Barrierfreier Zugang: Boltzmanngasse 5, Lift, 1. Stock rechts über den Gang zum Hintereingang des Hörsaals

Abstract

In the usual picture of heterogeneous nucleation a liquid condenses onto an immiscible solid particle. Here, we examine heterogeneous nucleation of CO₂ onto particles comprised of \( n \)-pentane or \( n \)-hexane under conditions where CO₂ should be a solid and the seed particles may be liquid or solid. Although CO₂ almost always condensed under our experimental conditions, these experiments do not easily fit into the framework of standard heterogeneous nucleation experiments. Rather they explore unconventional regimes of heterogeneous nucleation in which the state of the seed particle may both affect whether deposition can proceed, and, in turn, be influenced by the presence of the condensing species.