Themen Masterseminar Wintersemester 2014/15

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A. Von der dynamischen Dichtefunktionaltheorie (DDFT) zum Phasenfeldkristallmodell (PFC)

From Dynamical Density Functional Theory to Phase Field Crystal models

Literatur: [1–3]

B. Das Toner-Tu Modell für schwärmende Teilchen

The Toner-Tu model for swarming particles

Literatur: [4–6]

C. Die Feynman Ratsche - Model für molekulare Motoren?

The Feynmann ratchet - a model for molecular motors

Literatur: [7, 8]

D. Liesegang-Ringe - eine Konspiration von Chemie und Phasentrennung

Liesegang rings - a conspiration of chemistry and phase separation

Literatur: [9–11]

E. Nichtkoaleszenz von Tropfen ideal mischbarer Flüssigkeiten

Non-coalescence of droplets of ideally miscible liquids

Literatur: [12–14]

F. Ausgerichtetes und geneigtes homoklines Schlängeln lokalisierter Zustände

Aligned and tilted homoclinc snaking of localised states

Literatur: [15–17]

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