I. THEMEN MASTERSEMINAR SOMMERSEMESTER 2016

A. Fronten, Pulse, Quellen und Senken in verallgemeinerten komplexen Ginzburg-Landau Gleichungen

Fronts, pulses, sources and sinks in generalized complex Ginzburg-Landau equations

Literatur: [1, 2] and references therein

B. Instabilitäten und Musterbildung auf sich verändernden Domänen

Instabilities and pattern formation on time-varying domains

Literatur: [3, 4] and references therein

C. Selbstbewegte Tröpfchen in aktiven Emulsionen

Self-propelled droplets in active emulsions **Literatur:** [5–7]

D. Quasikristalle und flüssig-kristalline Phasen in mikroskopischen Kontinuummodellen

Quasicrystals and liquid crystalline phases in microscopic continuum models **Literatur:** [8–11]

E. Die Rayleigh-Taylor Instabilität - lineare und nichtlineare Analyse

The Rayleigh-Taylor instability - linear and nonlinear analysis

Literatur: [12–15] and references therein

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