

Sonderforschungsbereich 1060

The Mathematics of Emergent Effects

Einladung zu einem Vortrag im SFB-Seminar

Prof. Dr. Hans Knüpfer

Universität Heidelberg

spricht zum Thema

Homogenization for Diblock-Copolymer models

Zeit: Dienstag, den 24. Juni 2014, 14.15 Uhr

Ort: Lipschitz-Saal 1.016, Endenicher Allee 60

Kaffee/Tee: anschl. im Plückerraum 1.015

gez. Sergio Conti

Abstract: We consider a macroscopic limit for the Ohta-Kawasaki energy. This model has been used to describe phase separation for diblock-copolymers. We first investigate existence and shape of minimizers of the energy with prescribed volume (of the one phase) in the full space setting. We then consider situation of periodic configurations with prescribed density of the minority phase. We show that in a certain regime, the energy Γ -converges to a homogenized problem. This is joint work with C. Muratov and M. Novaga.