

Abstract Submitted
for the DFD09 Meeting of
The American Physical Society

Coarsening in axial segregation, an entropic approach MATTHIAS SCHRÖTER, MPI for Dynamics and Self-organization, TILO FINGER, RALF STANNARIUS, University Magdeburg — Binary mixtures in rotating drums can segregate into a stripe pattern where the individual stripes merge on long timescales [1]. Here we present an X-ray tomography study which indicates that the driving mechanism of this coarsening process might be the increase of configurational entropy [2].

[1] Finger *et al.* PRE **74** 031312 (2006)

[2] Edwards & Oakeshott, Physica A **157** 1080 (1989)

Matthias Schröter
MPI for Dynamics and Self-organization

Date submitted: 07 Aug 2009

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