

Universität Hamburg, Fachbereich Mathematik

AG Ang.Math. (Schwerpunkte „Optimierung und Approximation“ und „Differentialgleichungen und Dynamische Systeme“)

Bundesstr. 55 (Geomatikum), 20146 Hamburg

<http://www.math.uni-hamburg.de/spag/angmath/>

Kolloquium über Angewandte Mathematik

Donnerstag, den 7. Mai 2009, 17 Uhr c.t., Hörsaal 5

Prof. Dr. Andrea Corli (Ferrara)*

“On some hyperbolic models for phase transitions“

Zusammenfassung/Abstract

In this talk some simple hyperbolic models for modelling phase transitions are introduced, in one space dimension. Both the cases of separated phases and that of mixtures are considered; reactive terms are taken into account as well. The results concern the existence and uniqueness of solutions to the Riemann problem under constraints on the states, the global (in time) existence of weak solutions, the relaxation limit.

*Prof. Dr. Andrea Corli

University of Ferrara

Department of Mathematics

Via Machiavelli 35

44100 Ferrara, Italy

Tel.: +39 0532 97 49 44

E-Mail: andrea.corli@unife.it

Web: <http://web.unife.it/utenti/andrea.corli/>

Kontakt: Prof. Dr. Ingenuin Gasser, Tel. 040 42838-5128, Raum 105,

E-Mail: gasser@math.uni-hamburg.de