



Institut für
Angewandte Mathematik



Leibniz
Universität
Hannover

Institut für Angewandte Mathematik
14.01.2014

Oberseminar Analysis und Theoretische Physik

**Prof. Dr. Gieri Simonett
Vanderbilt University**

**“On a thermodynamically consistent Stefan
problem with variable surface energy”**

Abstract:

A thermodynamically consistent two-phase Stefan problem with temperature dependent surface tension is studied. It is shown that this problem generates a local semiflow on a well-defined state manifold. Moreover, stability and instability results of equilibrium configurations will be presented. It will be pointed out that surface heat capacity has a striking effect on the stability behavior of multiple equilibria.

**Dienstag, 28.01.2014, 15:00 Uhr s.t., Raum g005
Hauptgebäude der Universität**

Über Ihren Besuch würden sich freuen:

Prof. Dr. Joachim Escher
Prof. Dr. Olaf Lechtenfeld
Prof. Dr. Elmar Schrohe
Prof. Dr. Christoph Walker