

Einladung zum Mathematischen Kolloquium

Julius-Maximilians-Universität Würzburg • Fakultät für Mathematik und Informatik

Prof. Dr. Maria-Stella Gelli

Università de Pisa, Italien; Giovanni-Prodi-Professorin in diesem Semester

A variational journey: from obstacle problems and porous media to fracture mechanics and image processing

Mittwoch, den 24. Okt. 2012 • 16:15 Uhr

Mathematik Ost (Emil-Fischer-Straße 40), Seminarraum SE40 (Raum 00.001)

Inhaltsangabe

As a first step I will discuss some target problems arising in different branches of Physics and Material Sciences, all of them characterized by the presence of one or more internal scales, of geometrical or constitutive nature. Starting from these models I will show how to carry on a variational analysis (in terms of suitable associated energies) identifying a 'limiting problem' that maintains all the overall features of the initial ones. This task will be achieved by using the language and techniques developed in the framework of Gamma-convergence, whose guidelines will be presented here in an informal way.



www.mathematik.uni-wuerzburg.de/kolloquium.html

Zu diesem Vortrag laden wir Sie herzlich ein.
Im Anschluss an die Vorträge Kaffee und Tee im Foyer vor dem SE40.

Die Dozentinnen und Dozenten der Mathematik

