

# Einladung zum Würzburger Mathematischen Kolloquium

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

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## Stability of Interconnected Dynamical Systems and Other Research Activities

*Antrittsvorlesung*

Mittwoch, 25. Mai 2016 • 16:15 Uhr

Raum SE 40, Mathematik Ost, Emil-Fischer-Str. 40, Campus Hubland-Nord

### Inhaltsangabe

The main part of the presentation is devoted to stability of interconnected nonlinear dynamical systems. After a brief introduction to the notion of input-to-state stability we will consider how Lyapunov methods can be applied in case of interconnections and discuss about geometrical interpretations of the proposed stability conditions.

The second part of the presentation is devoted to mathematical modelling in mechanics of solids. In particular elastic deformations of nacre, which is a natural bio-composite, as well as deformations due to heat treatment of steels caused by temperature gradients and phase transformations will be considered.



[www.mathematik.uni-wuerzburg.de/kolloquium.html](http://www.mathematik.uni-wuerzburg.de/kolloquium.html)

Zu diesem Vortrag laden wir Sie herzlich ein.  
Im Anschluss an den Vortrag stehen selbstgebackener Kuchen, sowie Kaffee und Tee im Foyer vor dem SE 40 bereit.

Die Dozentinnen und Dozenten der Mathematik

