

# Mathematisches Institut der Universität Bayreuth

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## VORTRAGSANKÜNDIGUNG

Im Rahmen unseres gemeinsamen Oberseminars

„Numerische Mathematik, Optimierung und Dynamische Systeme“

spricht

Herr **Doc. Ing. Jiří Outrata, Dr Sc.**  
Institute of Information Theory and Automation (UTIA),  
Academy of Sciences of the Czech Republic (ASCR), Prague, Czech Republic,

**am Dienstag, 5.12.2023 um 12:30 Uhr im Raum S 136, Gebäude NW III**

über das Thema

### **"On the isolated calmness property of inverse and implicit multifunctions"**

*Abstract: The lecture deals with an extension of the available theory of SCD (subspace containing derivatives) mappings to mappings between spaces of different dimensions. This extension enables us to derive workable sufficient conditions for the isolated calmness of implicitly defined multifunctions around given reference points. This stability property differs substantially from isolated calmness at a point and, possibly in conjunction with the Aubin property, offers a new useful stability concept.*

*The application area includes a broad class of parameterized generalized equations, where the respective conditions ensure a rather strong type of Lipschitzian behavior of their solution maps.*

gez. Lars Grüne