



Wir laden recht herzlich zu einem Vortrag im Rahmen des

Oberseminars Partielle Differentialgleichungen

ein:

## Prof. Dr. Michael Dreher

(Universität Rostock)

*“Singular limits for general symmetrisable systems”*

**Donnerstag, 13. Dezember 2018**

Beginn: **15:15 Uhr**

Raum: **F0426**

Interessenten sind herzlich willkommen!

R. Denk, R. Racke, O. Schnürer

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**Zusammenfassung:** As examples, we consider compressible Euler systems with and without additional Poisson equation. There are various mechanisms which can make the flow incompressible, such as the low Mach number limit, or the quasi-neutral limit in case of systems of transport of electrically charged particles.

The talk presents a general functional analytical framework for handling all these limits, in the context of symmetrisable systems. The key idea is to choose an operator-valued symmetrising matrix.