



# Oberseminar Mathematische Strömungsmechanik

Institut für Mathematik der Julius-Maximilians-Universität Würzburg

*Marlies Pirner*

Universität Wien

## On kinetic modeling of plasma

*Abstract:*

A kinetic description for evolving gases is given by the Boltzmann equations. This equation is very complicated, so in practice a simplification of the collision operator, namely the so called BGK model, is considered. For an adequate description of a plasma, where treating the different ions is important, one is led to multi-species kinetic models. A new model of this type arising in inertial confinement fusion is introduced. Important theoretical properties are proven which opens the way to solving these equations numerically.

Raum 40.03.003 (Mathematikgebäude Ost)

Dienstag, der 14. Mai 2019 um 13 Uhr

Zu diesem Vortrag sind Sie herzlich eingeladen.

*gez. Christian Klingenberg*