



# Einladung zum Oberseminar Wissenschaftliches Rechnen

Julius-Maximilians-Universität Würzburg  
Lehrstuhl für Wissenschaftliches Rechnen IX

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## Modeling avoidance dynamics by FP-constrained Nash games

In this talk, we address the problem of modeling avoidance dynamics, one of the most important features of crowd motion. We consider two interacting pedestrian, and account for the variability of their motion through their probability density functions -PDFs-. Then, we set up a Nash game, where the strategies are the corrections to their trajectories dedicated to ensure avoidance. The game is constrained by the Fokker-Planck PDEs which govern the pedestrian PDFs. We give an existence result, and compare the computed Nash equilibrium to human experiments for 4 test cases.

Ort: Raum 30.02.003 (2. Stock) (Mathegeb. 30 West)    Zeit: Mittwoch, 26.04.2017, 14.00 Uhr

Zu diesem Vortrag laden wir Sie herzlich ein.

*gez. Prof. Dr. Alfio Borzi*  
*gez. Prof. Dr. Roland Griesmaier*