



# Mathematisches Kolloquium

Datum: Donnerstag, 20. Juni 2024  
Ort: SR 3517, Ernst-Abbe-Platz 2, 5. OG  
Zeit: 16:30 Uhr  
(Kaffee ab 15:45 Uhr im Common Room 3524, Ernst-Abbe-Platz 2)

## Prof. Dr. Andreas Knauf

(Friedrich-Alexander-Universität Erlangen-Nürnberg)

### „Phase space compactification for celestial bodies“

**Abstract:** In a joint work with Richard Montgomery we recently compactified every energy surface for  $n$  bodies with homogeneous pair interaction, obtaining a manifold with corners in the sense of Melrose. After a time change, the flow on it is globally defined and is non-trivial on the boundary. The talk is aimed at non-specialists and gives an introduction to the current status of the  $n$ -body problem.

Alle Interessierte sind herzlich eingeladen.