



# Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

**Dienstag, 09.12.2025**

17 Uhr, Geom H4

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Dynamics and Rigidity in (very) low dimensions

Abstract:

Geometric Topology aims to classify manifolds. Up to dimension 2 this is well-known and one obtains the circle and surfaces respectively. Furthermore, the classification of surfaces, and of the geometric structures they support, is a cornerstone of modern geometry and topology.

Dynamics examines the long-term behavior of transformations, and in dimensions 1 and 2 the subject is especially rich. Following Thurston's seminal ideas, these perspectives are essential for understanding the geometry of 3-manifolds.

In this talk, I will present key examples and highlight how the principle " $1+2=3$ " underlies the study of 3-manifolds, leading to recent joint work with Kathryn Mann on the rigidity of certain group actions and abundance phenomena for Anosov flows.

**Vor dem Vortrag (ab 16.30 Uhr) stehen im Foyer vor Hörsaal H4  
Kaffee und Tee bereit.**