



Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 22. Oktober 2024

17 Uhr, Geom H4

Prof. Shubham Dwivedi
(Universität Hamburg)

Title:

Geometric flows of G_2 structures

Abstract:

We will give an overview of G_2 -structures on seven dimensional manifolds. We will then discuss a family of flows of G_2 -structures on seven dimensional Riemannian manifolds. These flows are negative gradient flows of natural energy functionals involving various torsion components of G_2 -structures. We will prove short-time existence and uniqueness of solutions to the flows and a priori estimates for some specific flows in the family. Time permitting, we will discuss some future problems. This talk is based on joint works with Panagiotis Gianniotis and Spiro Karigiannis.

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