



Sommersemester 2016

Gastvorlesung

Prof. Dr. Simon Brendle

(Stanford University und Columbia University)

über das Thema

Partial Differential Equations in Geometry

A central theme in geometry is the study of manifolds and their curvature. In this lecture series, we will discuss how techniques involving partial differential equations have shed light on several longstanding problems in global differential geometry. In particular, we will focus on the geometry of hypersurfaces, and discuss the isoperimetric inequalities, Alexandrov's theorem on embedded surfaces in \mathbb{R}^n of constant mean curvature, as well as our proof of Lawson's 1969 conjecture concerning embedded minimal tori in S^3 . Time permitting, I will discuss some recent results on the classification of self-similar solutions to geometric flows.

Vorgesehene Termine

Mittwoch, 25. Mai; Mittwoch, 01. Juni; Montag, 06. Juni; Mittwoch, 22. Juni; Mittwoch, 29. Juni; Mittwoch, 06. Juli und weitere Termine nach Vereinbarung.

Die Vorlesungen finden an den genannten Terminen von 16–18 Uhr im Raum N16 statt.

Hierzu wird herzlich eingeladen!