EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN

**Mathematisch-
Naturwissenschaftliche
Fakultät**

Fachbereich Mathematik

**AB Geometrische Analysis,
Differentialgeometrie und
Relativitätstheorie**

Wintersemester 2017/18

Gastvorlesung

Prof. Dr. Simon Brendle
(Columbia University)

über das Thema

Ricci flow in higher dimensions

Hamilton's Ricci flow is one of the most important geometric evolution equations. In these lectures, I will focus on the problem of singularity formation in higher dimensions. In particular, I will discuss under what conditions the flow converges to a round metric after rescaling, and under what conditions the flow will form singularities of neck-pinch type. This requires new pinching estimates for the curvature ODE in higher dimensions.

Termine

Mittwoch,	den 13.12.2017	16 c.t.-18 Uhr	N9
Freitag,	den 15.12.2017	15 c.t.-17 Uhr	H2C14
Mittwoch,	den 10.01.2018	10 c.t.-12 Uhr	H2C14

Hierzu wird herzlich eingeladen.