



Wintersemester 2016/17

Gastvorlesung

Prof. Dr. Simon Brendle
(Columbia University)

über das Thema

Evolution by Curvature

We will discuss recent advances on singularity formation in geometric flows. In particular, we plan to consider fully nonlinear flows where the speed is a nonlinear function of the curvature eigenvalues. An interesting class of examples are flows for convex hypersurfaces with speed given by a power of the Gaussian curvature. The asymptotic behavior of these flows is by now well understood, and depends in a subtle way on the exponent. The main tools are a classification of self-similar solutions, as well as a monotonicity formula for an entropy functional.

Termine

Freitag,	16. Dezember 2016,	10 c.t.-12 Uhr,	N16
Mittwoch,	21. Dezember 2016,	14 c.t.-16 Uhr,	N16
Donnerstag,	12. Januar 2017,	14 c.t.-16 Uhr,	N16

Hierzu wird herzlich eingeladen!