

FELIX KLEIN SEMINAR

Speaker: Dan Knopf
University of Texas at Austin

Date: Thursday, February 28, 2019

Time: 2:00 PM

Location: 258 Hurley Hall



Lecture Title:

Ricci solitons that flow through conical singularities

Abstract

The “singular Ricci flows” introduced by Kleiner and Lott provide a satisfactory theory of weak solutions of Ricci flow for 3-manifolds and PIC 4-manifolds. Bamler and Kleiner proved that singular Ricci flows are unique in dimension $n=3$, thus affirmatively answering a conjecture of Perelman. I will describe joint work with Angenent which shows that uniqueness of weak solutions through singularities cannot hold in dimensions $n=5$ and above. The talk will be suitable for non-experts.