

Mathematics Colloquium

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*Columbia*

**The Ricci Flow on  
Manifolds with Positive  
Curvature Operator**

*Abstract: In this talk, we will study the singularities of the Ricci flow on manifolds with positive curvature operator. We first refine Hamilton's dimension reduction theorem. Then we prove a convergence result of the dilation limit. Finally we will talk about the limiting case—the shrinking Ricci soliton. We show that under a additional condition, all the compact gradient shrinking Ricci solitons with positive curvature operator must be Einstein, hence of constant curvature.*

**Wednesday, November 16**

**4:00-5:00 pm  
204 Smith Hall**