

1135-53-1333

**Anusha Mangala Krishnan\*** (anushakr@sas.upenn.edu), Department of Mathematics, David Rittenhouse Labs., 209 South 33rd Street, Philadelphia, PA 19104. *Ricci flow on cohomogeneity one manifolds.*

A cohomogeneity one manifold is a Riemannian manifold  $M$  admitting an isometric action by a Lie group  $G$ , such that the quotient space  $M/G$  is 1 dimensional. We will explain how in many cases the cohomogeneity one framework has been useful for studying the Ricci flow and Ricci solitons. We will also explain some of the challenges involved in studying cohomogeneity one Ricci flow in general, and mention some newer results. (Received September 21, 2017)