

Workshop on Geometric Evolution Equations
Atelier sur les équations géométriques d'évolution
16–27 April/*Avril*, 2008

A Cohomogeneity One framework for Ricci Solitons

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Abstract

Quite a few of the known (explicit) examples of Ricci solitons are constructed by symmetry reduction to a system of ordinary differential equations. I will discuss some generalities about this process and provide a common framework incorporating the natural generalizations of many of the known examples.