

GEOMETRY SEMINAR

Geometry of steady Ricci solitons

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May 12, 2021

Time: 10:30 am

Acesso à sala virtual:

Abstract. A gradient steady Ricci soliton is a complete Riemannian manifold, whose Ricci tensor is given by the Hessian of a smooth (potential) function. Steady Ricci solitons model Type II singularities in the Ricci flow and they are extensions of Ricci flat manifolds. In this talk, we shall discuss some recent progress on steady Ricci solitons, especially on curvature estimates in four dimensions.