Geometric aspects of recurrence, non-explosion and Feller property of a Riemannian manifold

Pigola, Stefano Univ. di Insubria, Italia

Abstract. In this talk, using the viewpoint of partial differential equations, we give a quick survey of the main stochastic properties of a Riemannian manifold, emphasising how they depend on the geometry of the underlying space, and showing how they can be used to obtain information on the geometry of submanifolds.