

1135-53-1167

Jonas Deré* (jonas.dere@kuleuven.be). *Ricci negative solvmanifolds and their nilradicals.*

In the homogeneous case, the only curvature behavior which is far from understood is negative Ricci curvature. In this talk, we will focus on recent progress in the special case of solvable Lie algebras. We will give several examples which indicate that it is a hard job to describe the nilradicals of solvable Lie algebras admitting a Ricci negative metric. Also, we give a characterization of derivations on a nilpotent Lie algebra which give rise to a solvable extension which is Ricci negative. This is joint work with Jorge Lauret (FaMAF - Universidad Nacional de Córdoba). (Received September 20, 2017)