

Classification of generalized Einstein metrics on 3-dimensional Lie groups

David Krusche
University of Hamburg

Abstract:

We introduce the notion of left-invariant generalized Einstein metrics on Lie groups. We express the generalized Ricci tensor explicitly in terms of the generalized metric, divergence operator and the underlying Courant algebroid structure. Furthermore, we study basic properties of left-invariant generalized Einstein metrics on Lie groups and give a classification in the three-dimensional case.