Title: Cohomogeneity one Minkowski space $\mathbb{R}_1^n$

Author(s): P. Ahmadi and S. M. B. Kashani

In this paper we study cohomogeneity one Minkowski space $\mathbb{R}_1^n$. Among other results, we prove that the orbit space is homeomorphic to $\mathbb{R}$ or $[0, \infty)$. We show that if there is a spacelike principal orbit, then each of the orbits is spacelike and principal. If $n = 3$ and there is a singular orbit, we characterize the orbits up to isometry, and the acting group up to conjugacy.

Address:
P. Ahmadi
Department of Mathematics
Tarbiat Modares University
P.O. Box 14115-175 Tehran
Iran
E-mail: P.ahmadi@znu.ac.ir

Address:
S. M. B. Kashani
Department of Mathematics
Tarbiat Modares University
P.O. Box 14115-175 Tehran
Iran