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Title: Homogeneous geodesics of four-dimensional generalized symmetric pseudo-Riemannian spaces

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We investigate the set of homogeneous geodesics on generalized symmetric pseudo-Riemannian spaces of dimension $n = 4$. In particular, we prove that in any pseudo-Riemannian generalized symmetric space of dimension $n = 4$ there are just four linearly independent homogeneous geodesics through each point.

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