

Zeghib, A.**Isometry groups and geodesic foliations of Lorentz manifolds. II: Geometry of analytic Lorentz manifolds with large isometry groups.** (English) [Zbl 0946.53036](#)

Geom. Funct. Anal. 9, No. 4, 823-854 (1999).

Author's abstract: "This is part II of a series on non-compact isometry groups of Lorentz manifolds. We have introduced, in Part I [ibid., 775-822 (see the review above)], a compactification of these isometry groups, and called "bipolarized" those Lorentz manifolds having a "trivial" compactification. Here, we show a geometric rigidity of non-bipolarized Lorentz manifolds; that is, they are (at least locally) warped products of constant curvature Lorentz manifolds by Riemannian manifolds".

Reviewer: [A.P.Stone \(Albuquerque\)](#)**MSC:****53C50** Global differential geometry of Lorentz manifolds, manifolds with indefinite metricsCited in **15** Documents**53C12** Foliations (differential geometric aspects)**Keywords:**[bipolarized Lorentz manifold](#); [compactification](#)**Full Text:** [DOI](#) [arXiv](#)