

Ikemakhen, A.

Examples of indecomposable non-irreducible Lorentzian manifolds. (English. Extended French summary) [Zbl 0873.53009](#)

Ann. Sci. Math. Qué. 20, No. 1, 53-66 (1996).

The author considers holonomy groups of indecomposable non-irreducible Lorentzian manifolds. He constructs a coordinate system in which he obtains a reduced form of the metric of such a manifold. Moreover, he describes some particular cases when there is further information about the restricted holonomy group of the metric. Finally, he shows that an Einstein Lorentzian manifold can be neither of type 3 nor of type 4.

Reviewer: [M.Hotłoś \(Wrocław\)](#)

MSC:

[53B30](#) Local differential geometry of Lorentz metrics, indefinite metrics

Cited in **6** Documents

Keywords:

[non-irreducible manifolds](#); [indecomposable manifolds](#); [Einstein manifold](#); [holonomy groups](#)

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