

Kishimoto, Iwao**Geodesics and isometries of Carnot groups.** (English) Zbl 1060.53039[J. Math. Kyoto Univ. 43, No. 3, 509-522 \(2003\).](#)

The author proves that an isometry of a two-step Carnot group which fixes the identity is an automorphism of the nilpotent Lie group and derives from previously known results that the same holds for all Carnot groups, i.e. nilpotent Lie groups with left-invariant sub-Riemannian metrics.

Reviewer: [Iskander A. Taimanov \(Novosibirsk\)](#)**MSC:**[53C17](#) Sub-Riemannian geometry[57S25](#) Groups acting on specific manifolds[53C22](#) Geodesics in global differential geometryCited in 11 Documents**Keywords:**[sub-Riemannian manifolds](#); [geodesics](#); [nilpotent Lie groups](#); [Carnot groups](#)**Full Text:** [DOI](#)