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An extention of Nomizu's theorem – a user's guide –. (English) Zbl 1351.22006

Complex Manifolds 3, 231-238 (2016).

Summary: For a simply connected solvable Lie group G with a lattice Γ, the author constructed an explicit finite-dimensional differential graded algebra A^*_Γ which computes the complex valued de Rham cohomology $H^*(\Gamma \setminus G, \mathbb{C})$ of the solvmanifold $\Gamma \setminus G$. In this note, we give a quick introduction to the construction of such A^*_Γ including a simple proof of $H^*(A^*_\Gamma) \cong H^*(\Gamma \setminus G, \mathbb{C})$.

MSC:

22E25 Nilpotent and solvable Lie groups
22E40 Discrete subgroups of Lie groups

Cited in **2** Documents

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