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Journal of Lie Theory 15 (2005) 249–260

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Nilpotent Lie Algebras of Maximal Rank and of Kac-Moody Type

$D_4^{(3)}$

Let \mathfrak{g} be the Kac-Moody algebra associated with the twisted affine Cartan matrix $D_4^{(3)}$. Each nilpotent Lie algebra of maximal rank and of type $D_4^{(3)}$ is isomorphic to a quotient of the positive part of \mathfrak{g} . We determine the isomorphism classes of nilpotent Lie algebras of maximal rank and of type $D_4^{(3)}$.

Keywords: Nilpotent, maximal rank, Kac-Moody algebras.

MSC: 17B30; 17B67