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Journal of Lie Theory 15 (2005) 505–520

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On Prime \mathbb{Z} -graded Lie Algebras of Growth One

We will give the structure of \mathbb{Z} -graded prime nondegenerate algebras $L = \sum_{i \in \mathbb{Z}} L_i$ containing the Virasoro algebra and having the dimensions of the homogeneous components, $\dim L_i$, uniformly bounded.

Keywords: \mathbb{Z} -graded Lie algebra, strongly PI, prime, nondegenerate, Virasoro algebra, loop algebra, growth, Jordan pair.

MSC: 17B60; 17B70, 17C50