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*Group gradings on locally finite simple algebras*

We study gradings by groups on locally finite associative and Lie algebras. In a number of cases we classify such gradings up to isomorphism of graded algebras. These cases include simple associative and Lie algebras of finitary linear transformations of not necessarily finite-dimensional vector spaces. These results are contained in a joint paper with Matej Brešar and Mikhail Kotchetov (arxiv: 1106.2638).