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Strongly homotopy Lie algebras. (English) Zbl 0999.17019
Commun. Algebra 23, No. 6, 2147-2161 (1995).

The authors obtain a correspondence between $A(m)$ (associative algebra) and $L(m)$ (Lie algebra) structures on a graded vector space, generalizations of the universal enveloping algebra functor. They investigate the notion of universal enveloping $A(m)$ -algebra of an $L(m)$ -algebra and prove a one-to-one correspondence between L -module structures on a graded differential vector space M and weak $L(m)$ -maps $L \rightarrow \text{End } M_L$, L a graded vector space having $L(m)$ -structure.

See the second author's paper in *J. Pure Appl. Algebra* 83, 141-175 (1992; [Zbl 0801.55004](#)) for motivation of this study.

MSC:

- 17B35 Universal enveloping (super)algebras
- 16S30 Universal enveloping algebras of Lie algebras
- 18G60 Other (co)homology theories (MSC2010)
- 55P62 Rational homotopy theory

Cited in **4** Reviews
Cited in **141** Documents

Keywords:

[universal enveloping algebra functor](#)

Full Text: [DOI](#) [arXiv](#) [Link](#)

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