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**Weak super-representations of Mal'tsev superalgebras. (Super-représentations faibles de superalgèbres de Malcev.)** (French) [Zbl 1106.17308](#)

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The authors give some properties of a Mal'tsev superalgebra on a field  $K$  of characteristic zero (for details see *M. Scheunert* [On the theory of Lie super algebras. An introduction, Lectures Notes Math. 716 (1979; [Zbl 0407.17001](#))] and *A. Koulibaly* [Contributions à la théorie des algèbres de Malcev. Cahier Mathématique, 33, USTL, Montpellier (1985; [Zbl 0685.17016](#)]).

It is defined the notion of weak super-representation of a Mal'tsev superalgebra on a  $\mathbb{Z}_2$ -graded vector space. Each Mal'tsev super-representation is a weak super-representation. Also are given the conditions in which the conversely assertion is true, too.

Lie triple superalgebras and Lie triple supersystems are defined and it is proved that a Mal'tsev superalgebra induce a Lie triple superalgebra. This result generalizes the similar result for Mal'tsev algebra of *K. Yamaguti* [Kumamoto J., Ser. A 6, 9-45 (1969; [Zbl 0138.26203](#)]).

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