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High Energy Physics - Theory

Homology of Lie algebra of supersymmetries and of super Poincare Lie algebra

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(Submitted on 1 Jun 2011 (v1), last revised 9 Aug 2011 (this version, v3))

We study the homology and cohomology groups of super Lie algebra of supersymmetries and of super Poincare Lie algebra in various dimensions. We give complete answers for (non-extended) supersymmetry in all dimensions ≤ 11. For dimensions $D=10,11$ we describe also the cohomology of reduction of supersymmetry Lie algebra to lower dimensions. Our methods can be applied to extended supersymmetry algebra.

Comments:	New version with some additions and corrections
Subjects:	**High Energy Physics - Theory (hep-th)**; Mathematical Physics (math-ph); Rings and Algebras (math.RA)
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