

The Theory Of Lie Superalgebras An Introduction

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In mathematics, a Lie superalgebra is a generalisation of a Lie algebra to include a \mathbb{Z}_2 -grading. Lie superalgebras are important in theoretical physics where they are used to describe the mathematics of supersymmetry. In most of these theories, the even elements of the superalgebra correspond to bosons and odd elements to fermions.

~~Lie superalgebra - Wikipedia~~

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the elements of the theory of representations of Lie algebras are known (see [12, 15, 21]). The basic features of the theory of representations of simple Lie superalgebras make them kindred to Lie algebras in characteristic p , while if $p = 2$ there is almost no differ-

LIE SUPERALGEBRAS PREFACE

Lie superalgebras of Cartan type: Lie superalgebras of Cartan type are Lie superalgebras of vector fields in commuting and anticommuting variables, and also their subalgebras defined by the action on the volume, Hamiltonian, and contact forms. If there are no commuting variables, then the superalgebra

~~Lie Superalgebras - CORE~~

Some basic results of the theory of Yangians of Lie superalgebras are described. Yangian of basic Lie superalgebra is described as a result of quantization of Lie superbialgebra of polynomial loops. Also, we consider a quantization of Lie superalgebra of twisted currents. Two systems of generators and defining relations are introduced.

~~Yangians of Classical Lie Superalgebras: Basic ...~~

Results pertaining to the theory of representations of “classical” Lie superalgebras are collected in the survey. This is a preview of subscription content, log in to check access. Access options

~~Lie superalgebras | SpringerLink~~

Lie Derivatives along Antisymmetric Tensors, and the M-Theory Superalgebra Castellani, Leonardo, Journal of Physical Mathematics, 2011; Structures of Not-finitely Graded Lie Superalgebras Li, Juanjuan and Fan, Guangzhe, Journal of Generalized Lie Theory and Applications, 2016; Matrix Lie Groups: An Introduction Lawson, J, Journal of Generalized Lie Theory and Applications, 2015

~~Corwin : Review: M. Scheunert, The theory of Lie ...~~

Structures of Not-finitely Graded Lie Superalgebras Li, Juanjuan and Fan, Guangzhe, Journal of Generalized Lie Theory and Applications, 2016; Lie Derivatives along Antisymmetric Tensors, and the M-Theory Superalgebra Castellani, Leonardo, Journal of Physical Mathematics, 2011; On representations of Lie superalgebras, II Furutsu, Hirotoshi, Proceedings of the Japan Academy, Series A ...

~~Kac : A sketch of Lie superalgebra theory~~

Lie superalgebras. 2. Duality theory (Mathematics) I. Wang, Weiqiang, 1970– II. Title. QA252.3.C44 2013 512 .482—dc23 2012031989 Copying and reprinting. Individual readers of this publication, and nonpro?t libraries acting for them, are permitted to make fair use of the material, such as to copy a chapter for use

~~Dualities and Representations of Lie Superalgebras~~

The 13 of the simple stringy Lie superalgebras are distinguished: only they have nontrivial central extensions; since two of the distinguish algebras have 3 nontrivial central extensions each, there are exactly 16 superizations of the Liouville action, Schroedinger equation, KdV hierarchy, etc.

~~Lie superalgebras of string theories—NASA/ADS~~

In the theory of Lie superalgebras $l(V) = I(V)6 (+ l(V)i$ plays the same role as the general linear Lie algebra in the theory of Lie algebras. If we regard the same decomposition $V = V_0 (D V_1$ as a Z -grading of V , then it corresponds to a Z -grading of $I(V)$, which is compatible with the Z_2 grading: $l(V) = Z_{-1} G) Z(V)5 G h .$

~~Lie superalgebras—ScienceDirect~~

Abstract: For classical Lie superalgebras of type I, we provide necessary and sufficient conditions for a Verma supermodule $\Delta(\lambda)$ to be such that every non-zero homomorphism from another Verma supermodule to $\Delta(\lambda)$ is injective. This is applied to describe the socle of the cokernel of an inclusion of Verma supermodules over the periplectic Lie superalgebras $\mathfrak{pe}(n)$ and, furthermore, to reduce the problem of description of $\mathrm{Ext}^1_{\mathcal{O}}(L(\mu) \dots$

~~[2010.06852] Some homological properties of category ...~~

We initiate the representation theory of restricted Lie superalgebras over an algebraically closed field of characteristic $p > 2$. A superalgebra generalization of the celebrated Kac–Weisfeiler conjecture is formulated, which exhibits a mixture of p -power and 2 -power divisibilities of dimensions of modules. We establish the conjecture for basic classical Lie superalgebras.

~~Representations of Lie superalgebras in prime ...~~

theory. Lie superalgebras and their representation theory are important in theoretic physics. They are used to describe the mathematics of supersymmetry, which is a theory originated in quantum physics that relates bosons and fermions. The study of representations of Lie superalgebras also has important applications in other branches

~~The representation theory of the exceptional Lie ...~~

In the geometric representation theory of Lie algebras, the Borel–Weil–Bott (BWB) theorem (see Theorem 2.7) plays a crucial role. This theorem describes how to construct families of representations from sheaf cohomology groups associated to certain vector bundles. It was shown by I. Penkov, that this theorem is not true for Lie superalgebras.

~~The representation theory of the exceptional Lie ...~~

a Lie superalgebra is a Frobenius extension, and to study certain questions in representation theory. 0. Introduction The theory of Frobenius extensions, initiated independently by Kasch [10] and Nakayama-Tsuzuku [13], has, aside from its intrinsic value, proven to be a useful tool in the study of groups and modular Lie algebras. The twofold

~~ON THE THEORY OF FROBENIUS EXTENSIONS AND ITS APPLICATION ...~~

Lie superalgebras are generalizations of Lie algebras, useful for depicting supersymmetry – the symmetry relating fermions and bosons. Most known examples of Lie superalgebras with a related automorphic form such as the Fake Monster Lie algebra whose reflection group is given by the Leech lattice arise from (super)string theory and can be derived from lattice vertex algebras.

~~Automorphic Forms and Lie Superalgebras | Urmie Ray | Springer~~

For the case of Lie algebras, where the situation is more complicated than commutative or associative algebras, the parallel theory of Grobner“ basis was developed by Shirshov in 1962 30, which is even earlier thanwx Buchberger’s discovery.