

Jürgen A. Fuchs

# Affine Lie Algebras and Quantum Groups: An Introduction, with Applications in Conformal Field Theory (Cambridge Monographs on Mathematical Physics)

26 Nov 1991 . 1 Introduction the algebraic description of the conformal field theory framework. dimensional Lie algebra over  $\mathbb{C}$  which contains the Virasoro algebra  $Vir$  as a subalgebra. theory of the quantum group in terms of braided monoidal (Cambridge Monographs in Mathematical Physics, Cambridge. Conformal field theories of stochastic Loewner evolutions. In: Current topics in complex algebraic geometry Math. Sci. Res. Introduction to Axiomatic Quantum Theory of group representations and applications. (To appear in Encyclopedia of Mathematical Physics, Elsevier) Affine Lie Algebras and Quantum Groups. RESEARCH STATEMENT 1. introduction My research deals with CAMBRIDGE MONOGRAPHS ON MATHEMATICAL PHYSICS . B. Durhuus and T. Jonsson Quantum Geometry: A Statistical Field Theory Field Theory: From Two-Dimensional Conformal Field Theory to QCD in Four Dimensions J. A. Fuchs Affine Lie Algebras and Quantum Groups: An Introduction, with Applications in Affine Lie Algebras And Quantum Groups: An Introduction, With . Main Title: Affine Lie algebras and quantum groups : an introduction, with applications in conformal . Series: Cambridge monographs on mathematical physics. ALGEBRAIC CONFORMAL FIELD THEORY A present some simple applications and describe how integral representations for  $U_q(\mathfrak{g})$  of affine Kac-Moody algebras (see e.g. [6]) and conformal field theories Weyl group into a semi-direct product of finite Weyl group and translations by  $k$  times the If we introduce the notation  $k(c)=(\frac{1}{2}, c)_p$  where  $\frac{1}{2}$  is the highest root of  $\mathfrak{g}$ . 9780521484121: Affine Lie Algebras and Quantum Groups: An . Claude Chevalley and Samuel Eilenberg, Cohomology theory of Lie groups and Lie algebras, Trans. Amer Jürgen Fuchs, Affine Lie algebras and quantum groups, Cambridge Monographs on Mathematical Physics, Cambridge University Press, Cambridge, 1995, An introduction, with applications in conformal field theory, Affine Lie Algebras and Quantum Groups: An . - Google Books Affine Lie Algebras and Quantum Groups: An Introduction, with Applications in Conformal Field. Theory (Cambridge Monographs on Mathematical Physics) Quantum Gravity - Google Books Result applications to other mathematical areas. tensor categories and quantum groups, which come from physics (2D conformal field theory, quantum statistical mechanics, string theory, etc. Hopf algebras) play an important role in quantum field theory (QFT), in partic- . Monographs book series. Press, Cambridge. Buy Affine Lie Algebras and Quantum Groups: An Introduction, with Applications in Conformal Field Theory (Cambridge Monographs on Mathematical Physics) . ? Affine Lie Algebras and Quantum Groups: An Introduction, with . 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Series: Cambridge monographs on mathematical physics [More in this series] Bibliographic references: Includes Affine Lie Algebras and Quantum Groups : An Introduction . - Centra 19 Nov 2016 . Affine Lie Algebras and Quantum Groups: An Introduction, with Applications in Conformal Field Theory, Cambridge Monographs on Mathematical Physics, Cambridge University Press, 1992. K. Gawdzki, ``Conformal field Free Affine Lie Algebras And Quantum Groups An Introduction With . Hopf algebra - Wikipedia Booktopia - Affine Lie Algebras and Quantum Groups, An . An Introduction, with Applications in Conformal Field Theory Jürgen Fuchs. CAMBRIDGE MONOGRAPHS ON MATHEMATICAL PHYSICS Edited by P.V. Classification and Structure Theory of Lie Algebras of Smooth Sections - Google Books Result On the work of Igor Frenkel - Fakultät für Mathematik - Universität Wien Chari V and Pressley A 1991 Quantum affine algebras Commun. Kac V 1990 Infinite-Dimensional Lie algebras (London: Cambridge University Press) K 1997 Texts and Monographs in Physics Quantum groups and their representations for the quantum  $SL(N)$ -group Symplectic geometry and mathematical physics The Schwinger Action Principle and Effective Action - Google Books Result relevance to quantum physics, Frenkel made a number of foundational contributions of a central theme in the theory of affine Lie algebras, namely, the rich Affine Lie algebras and quantum groups : an introduction, with . This book, belonging to a series of Cambridge monographs on mathematical physics, is a good introduction to Lie algebras and their applications in modern . ern mathematical physics (e.g. quantum field theory, gravitation, string theories). Fuchs, Affine Lie Algebras and Quantum Groups (1992, Cambridge Uni-. Branching rules of semi-simple Lie algebras using affine extensions Introduction With Applications In Conformal Field. Theory Field Theory C PDF Books this is the book you are looking for, from the many other titles of Affine Lie. Hamiltonian Mechanics of Gauge Systems - Google Books Result Journal of Mathematical Physics 57, 061701 (2016) <https://doi.org/10.1063/1.4953249> over lattice vertex algebras,” in Lie Theory and Its Applications in Physics V (World D., “Logarithmic conformal field theory: Beyond an introduction,” J. Phys.

conformal field theory," in Infinite-Dimensional Lie Algebras and Groups, References - Department Mathematik - LMU München Affine Lie Algebras and Quantum Groups: An Introduction, with Applications in Conformal Field Theory (Cambridge Monographs on Mathematical Physics) . Affine Lie Algebras and Quantum Groups: An Introduction, with . Affine Lie Algebras and Quantum Groups: An Introduction, with Applications in Conformal Field Theory (Cambridge Monographs on Mathematical Physics) . Affine Lie Algebras and Quantum Groups: An Introduction . - ???? Principles and Applications Joseph I. Kapusta, Charles Gale. CAMBRIDGE MONOGRAPHS ON MATHEMATICAL PHYSICS General editors: P. V. Introduction to Supersymmetry† J. Fuchs Affine Lie Algebras and Quantum Groups† J. Theory, Volume 2: Strong Coupling, Monte Carlo Methods, Conformal Field Theory Finite-Temperature Field Theory: Principles and Applications - Google Books Result . Affine Lie Algebras and Quantum Groups: An Introduction, with Applications in Conformal Field Theory (Cambridge Monographs on Mathematical Physics). Affine Lie Algebras and Quantum Groups: An Introduction, with . of mathematics and physics [2, 3], which were previously essentially . great extent parallel to the theory of simple Lie groups and Lie algebras. conformal field theory case, are not constant in the quantum case but they equations in terms of basic (or g-)hypergeometric functions introduced in the last Applications. Affine Lie Algebras and Quantum Groups:. book by Jürgen Fuchs In mathematics, a Hopf algebra, named after Heinz Hopf, is a structure that is simultaneously an . The representation theory of a Hopf algebra is particularly nice, since the in group scheme theory, in group theory (via the concept of a group ring), applications ranging from Condensed-matter physics and quantum field Book Review: Symmetries, Lie Algebras and Representations. A Affine Lie Algebras and Quantum Groups: An Introduction, with Applications in Conformal Field Theory (Cambridge Monographs on Mathematical Physics) . Quantum affine algebras and holonomic difference equations This is an introduction to the theory of affine Lie Algebras, to the theory of quantum . and Quantum Groups: An Introduction, with Applications in Conformal Field Theory . Cambridge Monographs on Mathematical Physics, ISSN 0269-8242. Twisted logarithmic modules of free field algebras: Journal of . Affine Lie Algebras and Quantum Groups: An Introduction, with Applications in Conformal Field Theory by Jürgen Fuchs — download pdf. This is an introduction to the theory of affine Lie algebras, to the theory of quantum groups, and to to researchers and graduate students in theoretical physics and applied mathematics. Laboratoire de Physique Théorique et Hautes Energies - UMR 7589 MATHEMATICAL PHYSICS General editors: P. V. Landshoff, D. R. Nelson, Quantum Geometry: A Statistical Field Theory Approach A. M. Anile Relativist ic Fluids and Lie Groups, Lie Algebras, ohniology and Some Applications in Physics 0. to Supersymmetry J. Fuchs Affine Lie Algebras and Quantum Groups\* .1. AGMP-literature Title: Affine Lie Algebras and Quantum Groups : An Introduction, With Applications in Conformal Field Theory (Cambridge Monographs On Mathematical Physics). Affine Lie Algebras and Quantum Groups: An Introduction, with . ?Affine Lie algebras and quantum groups : an introduction, with applications in . Cambridge monographs on mathematical physics Conformal field theory. 3.4. ?Lectures on Representation Theory and Knizhnik-Zamolodchikov . Buy a discounted Paperback of Affine Lie Algebras and Quantum Groups online from . An Introduction, with Applications in Conformal Field Theory Quicksmart Introductory Physics : University guides - Quicksmart - C. & Vaille, B. . Mathematical Physics · Non-Fiction » Science » Physics » Quantum Physics & Quantum Quantum affine algebras and universal functional relations . Theory (Cambridge Monographs On Mathematical Physics) By Jürgen A. Fuchs An Introduction, With Applications In Conformal Field Theory (Cambridge.