
Affine Lie Algebras And Quantum Groups An Introduction With Applications In Conformal Field Theory

Cambridge Monographs On Mathematical Physics By Jürgen Fuchs

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April 15th, 2020 - in pure and applied mathematics 1988 one special feature of the representation theory of affine lie algebras is the role of certain generating functions which correspond in the geometric interpretation to ? function loops and which are known in the physics literature as quantum fields though these generating functions do not strictly speaking belong to the algebra they admit an'

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May 16th, 2020 - 5 0 out of 5 stars affine lie algebras and quantum groups an introduction reviewed in the united states on december 1 2007 a very good book that takes every steps you need to know in affine lie algebras and quantum groups'

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May 21st, 2020 - this is an introduction to the theory of affine lie algebras to the theory of quantum groups and to the interrelationships between these two fields that are encountered in conformal field theory this introduction to the theory of affine lie algebras and to the theory of quantum groups succeeds in discussing the two subjects in a unified manner by covering their respective applications in'

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May 4th, 2020 - algebras and then move on to discuss affine lie algebras and quantum groups these are algebraic structures that describe the symmetries appearing in quantum field theory in 2 and 3 dimensions they are very important in string theory and topological quantum field theory and

'quantum affine algebras and holonomic difference equations

May 26th, 2020 - to an arbitrary kac moody algebra in particular to the affine lie algebra 0 associated to g we will call for shortness $u_q g$ quantum algebra and $u_q o$ quantum affine algebra it was gradually realized that the wznw conformal field theory and the representation theory of quantum groups have a profound link' **affine lie algebras and tame quivers researchgate**

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'generalization of drinfeld quantum affine algebras

March 21st, 2020 - drinfeld gave a current realization of the quantum affine algebras as a hopf algebra with a simple multiplication for the quantum current operators in this letter we will present a generalization of such a realization of quantum hopf algebras as a special case we will choose the structure functions for this algebra to be elliptic functions to derive certain elliptic quantum groups as a'

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May 7th, 2020 - this is an introduction to the theory of affine lie algebras and to the theory of quantum groups it is unique in discussing these two subjects in a unified manner which is made possible by discussing their respective applications in conformal field theory'

'current algebra

April 6th, 2020 - for the case where space is a one dimensional circle current algebras arise naturally as a central extension of the loop algebra known as kac moody algebras or more specifically affine lie algebras in this case the mutator and normal ordering can be given a very precise mathematical definition in terms of integration contours on the'*quantum langlands duality of representations of mathcal*

*April 6th, 2020 - var95 varchenko a multidimensional hypergeometric functions and representation theory of lie algebras and quantum groups world scientific 1995 17b67 kac moody super algebras extended affine lie algebras toroidal lie algebras 17b68 virasoro and related algebras'***braid group action and quantum affine algebras springerlink**
March 27th, 2020 - we lift the lattice of translations in the extended affine weyl group to a braid group action on the quantum affine algebra this action fixes the heisenberg subalgebra pointwise loop like generators of the algebra are obtained which satisfy the relations of drinfel d s new realization coproduct formulas are given and a pbw type basis is constructed'

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March 6th, 2020 - affine lie algebras and quantum groups an introduction with applications jürgen fuchs google books this is an introduction to the theory of affine lie algebras to the theory of quantum'*affine lie algebra*

*May 20th, 2020 - affine lie algebras from simple lie algebras definition if is a finite dimensional simple lie algebra the corresponding affine lie algebra is constructed as a central extension of the infinite dimensional lie algebra with one dimensional center as a vector space where is the plex vector space of laurent polynomials in the indeterminate t'***why should affine lie algebras and quantum groups have**

May 8th, 2020 - why should affine lie algebras and quantum groups have equivalent representation theories ask question asked 5 years the category associated to the quantum group needs to be defined a bit more carefully than in your post however this is the category associated to a 2 1 topological field theory the category of integrable affine lie'

'modules over affine lie algebras at critical level and

May 2nd, 2020 - modules over affine lie algebras at critical level and quantum groups by qian lin submitted to the department of mathematics on april 23 2010 in partial fulfillment of the requirements for the degree of doctor of philosophy abstract there are two algebras associated to a reductive lie algebra g the de concini kac quantum algebra and the kac moody lie algebra'

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May 29th, 2020 - this volume deals with q analogs of special functions quantum groups and algebras including hopf algebras and representations of semi simple lie groups also treated are special functions of a matrix argument representations in the gel fand tsetlin basis and finally modular forms theta functions and affine lie algebras'

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May 3rd, 2020 - in this paper we explore natural connections among trigonometric lie algebras general affine lie algebras and vertex algebras among the main results we obtain a realization of trigonometric lie algebras as what were called the covariant algebras of the affine lie algebra a ? of lie algebra a gl gl with respect to certain automorphism groups'*quantum affine algebra*

April 23rd, 2020 - quantum affine algebra in mathematics a quantum affine algebra or affine quantum group is a hopf algebra that is a q deformation of the universal enveloping algebra of an affine lie algebra they were introduced independently by drinfeld 1985 and jimbo 1985 as a special case of their general construction of a quantum group from a cartan matrix'

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June 1st, 2020 - lag lie algebras algebraic groups and lie groups these notes are an introduction to lie algebras algebraic groups and lie groups in characteristic zero emphasizing the relationships between these objects visible in their categories of representations"rt representation theory what s the state of affairs

May 23rd, 2020 - on the quantum group side one can take a subquotient to obtain a semisimple rigid braided tensor category in fact a modular tensor category the same procedure certainly works on the affine lie algebra side so one also has a semisimple subquotient of the affine lie algebra module category of the negative integral level'

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pages"quantum group

June 1st, 2020 - in drinfeld s approach quantum groups arise as hopf algebras depending on an auxiliary parameter q or h which bee universal enveloping algebras of a certain lie algebra frequently semisimple or affine when $q \neq 1$ or $h \neq 0$ "affine quantum groups request pdf

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June 2nd, 2020 - features research articles containing new results also publishes surveys as directed by the editorial board international editorial board with expertise in a broad range of areas including lie groups and lie algebras lie transformation groups algebraic groups discrete subgroups of lie groups quantum groups and enveloping algebras kac moody groups and algebras lie supergroups and"hopf algebra

June 2nd, 2020 - the algebra of all continuous functions on a lie group is a locally pact quantum group quasi hopf algebras are generalizations of hopf algebras where coassociativity only holds up to a twist they have been used in the study of the knizhnik zamolodchikov equations'

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'lie algebras affine transformation invariants and lie

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'degenerate affine hecke algebras and centralizer

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'daugherty ram virk affine and degenerate affine bmw

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groups respectively cyclotomic bmv algebras affine hecke algebras cyclotomic hecke algebras and their degenerate versions are quotients'

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April 26th, 2020 - these subjects are very closely related to finite dimensional representations of affine hecke algebras affine quantum groups nakajima s quiver varieties and the structure of hall algebras knowledge about these algebras can lead to new results about the representations of schur algebras and finite dimensional hecke algebras'

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