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Affine, Vertex and W-algebras

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W Algebras

P. Bouwknegt, K. Schoutens



W Algebras:

C-Algebras and W*-Algebras* Shoichiro Sakai, 2012-12-06 From the reviews This book is an excellent and comprehensive survey of the theory of von Neumann algebras It includes all the fundamental results of the subject and is a valuable reference for both the beginner and the expert Math Reviews In theory this book can be read by a well trained third year graduate student but the reader had better have a great deal of mathematical sophistication The specialist in this and allied areas will find the wealth of recent results and new approaches throughout the text especially rewarding American Scientist The title of this book at once suggests comparison with the two volumes of Dixmier and the fact that one can seriously make this comparison indicates that it is a far more substantial work than others on this subject which have recently appeared

BLMSoc *W-symmetry* P. Bouwknegt, K. Schoutens, 1995 W symmetry is an extension of conformal symmetry in two dimensions Since its introduction in 1985 W symmetry has become one of the central notions in the study of two dimensional conformal field theory The mathematical structures that underlie W symmetry are so called W algebras which are higher spin extensions of the Virasoro algebra This book contains a collection of papers on W symmetry covering the period from 1985 through 1993 Its main focus is the construction of W algebras and their representation theory A recurrent theme is the intimate connection between W algebras and affine Lie algebras Some of the applications in particular W gravity are also covered The significance of this reprint volume is that there are no textbooks entirely devoted to the subject **The W3 Algebra** Peter Bouwknegt, Jim McCarthy, Krzysztof Pilch, 2014-01-15 **Affine, Vertex and W-algebras** Dražen Adamović, Paolo Papi, 2019-11-28 This book focuses on recent developments in the theory of vertex algebras with particular emphasis on affine vertex algebras affine W algebras and W algebras appearing in physical theories such as logarithmic conformal field theory It is widely accepted in the mathematical community that the best way to study the representation theory of affine Kac Moody algebras is by investigating the representation theory of the associated affine vertex and W algebras In this volume this general idea can be seen at work from several points of view Most relevant state of the art topics are covered including fusion relationships with finite dimensional Lie theory permutation orbifolds higher Zhu algebras connections with combinatorics and mathematical physics The volume is based on the INdAM Workshop Affine Vertex and W algebras held in Rome from 11 to 15 December 2017 It will be of interest to all researchers in the field **The Theory of W*-algebras** Shôichirô Sakai, 1962 *Structure of Classical W-algebras* Uhi Rinn Suh, Massachusetts Institute of Technology. Department of Mathematics, 2013 The first part of the thesis provides three equivalent definitions of a classical finite W algebra $W_{\text{fin}}(\mathfrak{g}, \mathfrak{f})$ and two equivalent definitions of a classical affine W algebra $W(\mathfrak{g}, \mathfrak{f}, k)$ associated to a Lie algebra \mathfrak{g} a nilpotent element \mathfrak{f} and $k \in \mathbb{C}$ A classical affine W algebra $W(\mathfrak{g}, \mathfrak{f}, k)$ has a Hamiltonian operator H and the H twisted Zhu algebra of $W(\mathfrak{g}, \mathfrak{f}, k)$ is the classical finite W algebra $W_{\text{fin}}(\mathfrak{g}, \mathfrak{f})$ A classical finite resp affine W algebra is isomorphic to a polynomial resp differential polynomial ring I compute Poisson brackets resp Poisson lambda brackets between generating

elements of a classical finite resp affine W algebra when f is a minimal nilpotent In the second part I introduce a classical finite resp affine fractional W algebra $W_{\text{fin}}(g, \mathfrak{A}_m, k)$ resp $W_{\text{frac}}(g, \mathfrak{A}_m, k)$ where $\mathfrak{A}_m = \mathfrak{g}/\mathfrak{z}$ for a certain $p \in \mathfrak{g}$ and an integer $m \geq 0$ If $m = 0$ then the algebra $W_{\text{fin}}(g, \mathfrak{A}_m, k)$ resp $W_{\text{frac}}(g, \mathfrak{A}_m, k)$ is isomorphic to $W_{\text{fin}}(g, f)$ resp $W_{\text{frac}}(g, f, k)$ I show that an affine fractional W algebra $W_{\text{frac}}(g, \mathfrak{A}_m, k)$ has a Hamiltonian operator H and the H twisted Zhu algebra of $W_{\text{frac}}(g, \mathfrak{A}_m, k)$ is $W_{\text{fin}}(g, \mathfrak{A}_m, k)$ As in ordinary W algebras cases a classical finite resp affine fractional W algebra is isomorphic to a polynomial resp differential polynomial ring In particular I show explicit forms of generators and compute brackets resp λ brackets between them when f is a minimal nilpotent Using generalized Drinfel'd and Sokolov reduction I find an infinite sequence of integrable systems related to an affine fractional W algebra when \mathfrak{A}_m is a semisimple element in $\mathfrak{g}/\mathfrak{z}$ In the last part I introduce generalized Drinfel'd Sokolov reductions and Hamiltonian ODEs associated to classical finite W algebras and finite fractional W algebras Also I find integrals of motion of the Hamiltonian ODEs using Drinfel'd Sokolov reductions It is an open problem whether these equations are Lenard integrable

W-Algebras Jacob T. Schwartz, 1967 **The Theory of W^* -algebras** Shôichirô Sakai, 1962 *W-symmetry* Peter Bouwknegt, Kareljan Schoutens, 1995-01-10 W symmetry is an extension of conformal symmetry in two dimensions Since its introduction in 1985 W symmetry has become one of the central notions in the study of two dimensional conformal field theory The mathematical structures that underlie W symmetry are so called W algebras which are higher spin extensions of the Virasoro algebra This book contains a collection of papers on W symmetry covering the period from 1985 through 1993 Its main focus is the construction of W algebras and their representation theory A recurrent theme is the intimate connection between W algebras and affine Lie algebras Some of the applications in particular W gravity are also covered The significance of this reprint volume is that there are no textbooks entirely devoted to the subject *Deformations of the Classical W -algebras* Alexander Kogan, 2003 *Quantum Hamiltonian Reduction of W -algebras and Category O* . Stephen Morgan, 2014 *W-algebras Associated to Truncated Current Lie Algebras* Xiao He, 2018 Given a finite dimensional semi simple Lie algebra \mathfrak{g} and a non zero nilpotent element $e \in \mathfrak{g}$ one can construct various W algebras associated to \mathfrak{g}, e Among them the affine W algebra is a vertex algebra which can be realized through semi infinite cohomology and the finite W algebra is the Zhu algebra of the affine W algebra In the constructions of W algebras a non degenerate invariant bilinear form and a good \mathbb{Z} grading of \mathfrak{g} play essential roles Truncated current Lie algebras associated to \mathfrak{g} are quotients of the current Lie algebra $\mathfrak{g} \otimes \mathbb{C}[t]$ One can show that non degenerate invariant bilinear forms exist on truncated current Lie algebras and a good \mathbb{Z} grading of \mathfrak{g} induces good \mathbb{Z} gradings of truncated current Lie algebras The constructions of W algebras can thus be adapted to the setting of truncated current Lie algebras The main results of this thesis are as follows First we introduce finite and affine W algebras associated to truncated current Lie algebras and generalize some properties of W algebras associated to semi simple Lie algebras Second we develop an adjusted version of semi infinite cohomology which helps us to define affine W algebras associated to general nilpotent

elements in a uniform way Finally we consider vertex operator algebras in general and show that their higher level Zhu algebras are all isomorphic to subquotients of their universal enveloping algebras

Algebras and Their Arithmetics Leonard Eugene Dickson, 1923

Representations of W-Algebras with two generators and new rational models, 1991 [Quantum W-algebras and Elliptic Algebras](#) Kyōto Daigaku. Research Institute for Mathematical Sciences, Boris Feigin, Edward Frenkel, 1995 Abstract We define a quantum W algebra associated to \mathfrak{sl}_N as an associative algebra depending on two parameters For special values of the parameters it becomes the ordinary W algebra of \mathfrak{sl}_N or the q deformed classical W algebra of \mathfrak{sl}_N We construct free field realizations of the quantum W algebras and the screening currents We also point out some interesting elliptic structures arising in these algebras In particular we show that the screening currents satisfy elliptic analogues of the Drinfeld relations in $U_q(\mathfrak{sl}_n)$

Linear Algebras Leonard Eugene Dickson, 1914

Representations of Shifted Yangians and Finite W -algebras Jonathan Brundan, Aleksandr Sergeevich Kleshchëv, 2008 The authors study highest weight representations of shifted Yangians over an algebraically closed field of characteristic 0 In particular they classify the finite dimensional irreducible representations and explain how to compute their Gelfand Tsetlin characters in terms of known characters of standard modules and certain Kazhdan Lusztig polynomials The authors approach exploits the relationship between shifted Yangians and the finite W algebras associated to nilpotent orbits in general linear Lie algebras

Geometric Representations of W-algebras and Applications to the Quantum Langlands Correspondence Gurbir Dhillon, 2020 Fix a reductive group G and consider the affine W algebra associated to a principal nilpotent element of the Lie algebra of G We determine the block decomposition of its category of highest weight i e positive energy representations and identify regular blocks with Whittaker sheaves on the affine flag variety of G We also identify the latter category under a mild hypothesis on the central charge with Category \mathcal{O} for the affinization of the Langlands dual Lie algebra at the dual central charge The latter confirms a conjecture of Gaitsgory and implies non factorizably a related conjecture of Gaitsgory and Lurie

2002, [Quantum W-algebras with two and three generators](#), 1990

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