

Algebras Of Functions On Quantum Groups

Leonid I Korogodski Yan S Soibelman

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Fima Paris: ?A guide to quantum groups Introduction - Dartmouth College 7.3 Examples of quantized function algebras. A The general definition. B The quantum special linear group. C The quantum orthogonal and symplectic groups. quantum group in nLab The book is devoted to the study of algebras of functions on quantum groups. The authors' approach to the subject is based on the parallels with symplectic Algebras of Functions on Quantum Groups - Leonid I. Korogodski honest space. For example, algebras of functions on honest spaces are: commutative nilpotent free. Quantum spaces quantum space ? arbitrary algebra. Quantum Groups and Hopf Algebras - Departamento de Matemática Orbit method for the algebras of functions on quantum groups and coherent states. I on ResearchGate, the professional network for scientists. Algebras of Functions on Quantum Groups - Google Books Result ?Aug 20, 2011. There are a lot of books on quantum groups by now. Algebras of functions on quantum groups, Part 1 By Leonid I. Korogodski, Yan S. Le-So S. Levendorskii, Y. Soibelman. Algebras of functions on compact quantum groups, Schubert cells and quantum tori. Comm. Math. Phys., 139 1991, pp. Mini-course on Quantum Groups - University of Toronto Algebras of functions on compact quantum groups, Schubert cells and quantum tori. Serge Levendorski? and Yan Soibelman Orbit method for the algebras of functions on quantum groups and. groups, such as enveloping algebras of semisimple Lie algebras or algebras of regular functions on the corresponding algebraic groups. As one can relate Buy Algebras of Functions on Quantum Groups: Part I Mathematical. Algebras of Functions on Quantum Groups textbook solutions from Chegg, view all supported editions. Finite Quantum Groups algebras introduced by Drinfel'd D2 in connection with the solution of the Knizhnik-. polynomials show up as spherical functions on quantum groups Ko. Hopf Algebras and Quantum Groups - People May 21, 2011. This is an ongoing series of 12 lectures on quantum groups I am giving at the Lecture 1 February 2, 2009: Hopf algebras with a pair of examples, of a Lie algebra, and the set of regular functions on an algebraic group. Compact Quantum Groups and Groupoid C^* -Algebras Algebras of Functions on Quantum Groups: Part I The study of quantum groups is a relatively new area of mathematical research. deformations of Lie algebras or algebras of regular functions Kassel, 1995, p. Quantum group - Wikipedia, the free encyclopedia Some solvable quantum groups - University of California, Berkeley Algebras of functions on compact quantum groups, Schubert cells. Hopf Algebras and Quantum Groups - MathOverflow groups and algebras can also lead to interesting quantum groups, whose analysis can be. with the algebras of continuous or smooth functions on a Lie group.

abstract-algebra quantum-groups. share|cite|improve this question. $U_q(\mathfrak{su}(2))$ is a "quantum group" which can be seen as a deformation of the usual Lie group $SU(2)$. It is in fact a Hopf algebra, similar in form to the Hopf algebra of regular functions on the Lie group, but with both its multiplication and its comultiplication "deformed". The best way to see what all this means is to read the first few chapters of Christian Kassel's Quantum Groups book which extremely lucidly and uncomplicatedly introduce $U_q(\mathfrak{sl}(2))$, the corresponding object for the Lie group $SL(2)$. \endgroup " Mariano Suárez-Álvarez Sep 25 '10 at 19:48. ad

Soibelman Y.S., Algebra of functions on a compact quantum group and its representations, Leningrad Math. J. 2 (1991), 161-178.
Soibelman Y.S., Selected topics in quantum groups, Internat. J. Modern Phys. Vaksman L.L., Soibelman Y.S., An algebra of functions on the quantum group $SU(2)$, Funct. Anal. Appl. Several other results concerning this quantum group are given with direct proofs based on concrete realization of these algebras as algebras of operators on a Hilbert space. Do you want to read the rest of this article? Request full-text. If $\hat{1}/4=1$ then the algebra coincides with the algebra of all continuous functions on the group $SU(2)$. Therefore one can introduce many notions related to the fact that $SU(2)$ is a Lie group. In particular, one can speak about convolution products, Haar measure, differential structure, cotangent bundle, left invariant differential forms, Lie brackets, infinitesimal shifts and Cartan-Maurer formulae. One can also consider representations of $SU(2)$. For $\hat{1}/4<1$ the algebra A is no longer commutative, however the notions listed above are meaningful.

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