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Collana	Contemporary Mathematics, , 1098-3627 ; ; 623
Disciplina	512/.22
Soggetti	Representations of groups Quantum groups Geometry, Algebraic Mathematical physics Electronic books.
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	<p>""References""""Dimensions of imaginary root spaces of hyperbolic Kac-Moody algebras""; ""1. Introduction""; ""2. Berman-Moody formula and Peterson formula""; ""3. Works of Feingold and Frenkel, and Kac, Moody and Wakimoto""; ""4. Kang's generalizations""; ""5. Frenkel's conjecture""; ""6. Multiplicities of norm zero root spaces""; ""7. Extended and overextended Dynkin diagrams""; ""8. Root multiplicities for <math>a_n</math> and <math>a_{n+1}</math>""; ""9. Borcherds's constructions""; ""10. Asymptotics by the method of Hardy-Ramanujan-Rademacher""; ""11. Summary of results on root multiplicities""</p> <p>""Acknowledgments""""References""; ""On some structures of Leibniz algebras""; ""1. Introduction""; ""2. Preliminaries""; ""3. Solvability""; ""4. Nilpotency""; ""5. Semisimplicity""; ""6. Classification of Low dimensional Leibniz algebras""; ""References""; ""A geometric construction of generalized <math>-Schur</math> algebras""; ""Introduction""; ""1.</p>

The algebras  $U_q(\mathfrak{sl}_n)$ ,  $U_q(\mathfrak{sl}_m)$ ; "2. The algebra  $U_q(\mathfrak{sl}_n)$ "; "3. A parametrization";  
 "Acknowledgements"; "References"; "On the classification of  
 irreducible Gelfand-Tsetlin modules of  $U_q(\mathfrak{sl}_n)$ "; "1. Introduction"; "2.  
 Preliminaries."  
 "3. Gelfand-Tsetlin modules"; "4. Gelfand-Tsetlin modules of  $U_q(\mathfrak{sl}_n)$ ";  
 "5. Modules in  $U_q(\mathfrak{sl}_n)$  defined by tableaux"; "6. Localization functors";  
 "7. Generic blocks of  $U_q(\mathfrak{sl}_n)$  and localization"; "8. Example"; "9. Main  
 results"; "References"; "Supersymmetry and the modular double";  
 "1. Introduction"; "2. Reminder of the modular double."; "3. Modular  
 double for  $U_q(\mathfrak{sl}_2)$ "; "4.  $R$ -matrix for  $U_q(\mathfrak{sl}_2)$ ,  $(U_q(\mathfrak{sl}_2))$ "; "5.  
 Final remarks"; "References"; "On Weyl modules for quantum and  
 hyper loop algebras"; "Introduction"; "1. The Algebras"  
 "2. Weyl Modules"; "Acknowledgements"; "References"; "Toroidal Lie  
 superalgebras and free field representations"; "1. Introduction"; "2.  
 Preliminaries"; "3. Loop-like toroidal Lie superalgebras  $(U_q(\mathfrak{sl}_n))$ "; "4. Free  
 field realizations of  $(U_q(\mathfrak{sl}_n))$ "; "5. Appendix"; "References"; "Invariants  
 of  $(-1)$ -skew polynomial rings under permutation representations";  
 "0. Introduction"; "1. Definitions and basic properties"; "2. Upper  
 bound for the algebra generators"; "3. Invariants under the full  
 symmetric group  $S_n$ "; "4. Invariants under  $S_n$ "  
 "5. Converse of Kac-Watanabe-Gordeev Theorem"

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