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| Nota di contenuto | ""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 $a_{2l-1}^{(2)}$ and $a_{2l}^{(2)}$ ""; ""9. Borcherds's constructions""; ""10. Asymptotics by the method of Hardy-Ramanujan-Rademacher""; ""11. Summary of results on root multiplicities"" ""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 \mathfrak{sl}_n -Schur algebras""; ""Introduction""; ""1. The algebras \mathfrak{sl}_n , \mathfrak{sl}_n^+ ""; ""2. The algebra \mathfrak{sl}_n^+ ""; ""3. A parametrization""; |

""Acknowledgements""; ""References""; ""On the classification of irreducible Gelfand-Tsetlin modules of (3) ""; ""1. Introduction""; ""2. Preliminaries.""

""3. Gelfand-Tsetlin modules""""4. Gelfand-Tsetlin modules of (3) ""; ""5. Modules in \mathcal{O} defined by tableaux""; ""6. Localization functors"";

""7. Generic blocks of \mathcal{O} 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 $_{\mathbb{Z}}(1|2)$ ""; ""4. R -matrix for $_{\mathbb{Z}}(1|2)$ ""; ""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 (\mathfrak{g}) ""; ""4. Free field realizations of (\mathfrak{g}) ""; ""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""
