Automorphic Forms And Lie Superalgebras

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Kevin Buzzard (lecture 1/20) Automorphic Forms And The Langlands Program [2017] *Alexander Braverman - Local geometric Langlands correspondence and Lie superalgebras*

The Search for a Mathematically Satisfying Geometric Theory of Automorphic FormsMinoru Wakimoto, Mock modular forms and representation theory of affine Lie superalgebras ~~Automorphic forms, L-functions and the Langlands conjectures | Rainer Weissauer | Лекториум~~ *Why do people doing Automorphic Forms call themselves Number Theorists Part1 Spectral Theory of Automorphic Forms and Analytic Number Theory - Henryk Iwaniec* ~~Automorphy: Galois Representations Attached to Automorphic Forms - Richard Taylor~~ ~~Robert Langlands, Problems in the theory of automorphic forms: 45 years later (1/3) [2014]~~ **12 - Galois representations and automorphic forms** *[Lie Groups and Lie Algebras] Lecture 20. Universal enveloping algebras* Why do people doing Automorphic Forms call themselves Number Theorists Part2

B â o Ch à u Ng ô - Vinberg's monoid and automorphic L-functions *Arithmetic applications of automorphic forms - Andrew Wiles* **Miranda Cheng: A Moonshine Master Toys with String Theory** *Peter Scholze - 1/6 On the local Langlands conjectures for reductive groups over p-adic fields* ~~Prof. V. Balakrishnan in conversation with Prof. Suresh Govindarajan~~

Ramanujan tau function and the Sato--Tate conjecture~~Robert Langlands and his mathematical revolution~~ Monster Group (John Conway) - Numberphile Elementary Introduction to the Langlands Program — 1 of 4 **Weekly Reads (December 18, 2020)** Kevin Buzzard (lecture 16/20) Automorphic Forms And The Langlands Program [2017] Symmetries in Mathematics and Physics II - S-J. Cheng Lie algebras of the XXI century | Andrei Okounkov | Coloquio *Mock Modular Forms are Everywhere - Miranda Cheng*

G.Olshanski -- Representations of classical groups and related topics -- 03**Valentin Blomer - 1/4 Automorphic forms in higher rank Valentin Blomer - 2/4 Automorphic forms in higher rank**

Kevin Buzzard (lecture 20/20) Automorphic Forms And The Langlands Program [2017] *Automorphic Forms And Lie Superalgebras*
Lie superalgebras are generalizations of Lie algebras, useful for depicting supersymmetry – the symmetry relating fermions and bosons. Most known examples of Lie superalgebras with a related automorphic form such as the Fake Monster Lie algebra whose reflection group is given by the Leech lattice arise from (super)string theory and can be derived from lattice vertex algebras.

Automorphic Forms and Lie Superalgebras | Urmie Ray | Springer
Overview. This book provides the reader with the tools to understand the ongoing classification and construction project of Lie superalgebras. It presents the material in as simple terms as possible. Coverage specifically details Borcherds-Kac-Moody superalgebras. The book examines the link between the above class of Lie superalgebras and automorphic form and explains their construction from lattice vertex algebras.

Automorphic Forms and Lie Superalgebras / Edition 1 by ...
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Automorphic Forms and Lie Superalgebras | SpringerLink
mensional semisimple Lie algebras in [Ser1] is conducive to the construction of Borcherds-Kac-Moody Lie algebras as it emphasizes the presentation of fi nite dimensional semi-simple Lie algebras via generators and relations. For a fi rst approach to automorphic forms and the geometry of the upper half plane, the

Automorphic Forms and Lie Superalgebras
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Automorphic Forms and Lie Superalgebras | Urmie Ray (auth ...
Automorphic Forms and Lie Superalgebras (2006) (Algebra and Applications #5) View larger image. By: Urmie Ray

Automorphic Forms and Lie Superalgebras | UK education ...
The book examines the link between the above class of Lie superalgebras and automorphic form and explains their construction from lattice vertex algebras. It also includes all necessary background information. L Functions And Automorphic Forms. Get Book. Author: Jan Hendrik Bruinier Publisher: Springer

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Automorphic Forms And Lie Superalgebras
Automorphic forms and Lie superalgebras. [Urmie Ray] -- Provides the tools to understand the classification and construction project of Lie superalgebras. This book presents the material in simple terms and covers Borcherds-Kac-Moody superalgebras.

Automorphic forms and Lie superalgebras (eBook, 2006 ...
Automorphic forms are a generalization of modular forms to more general analytic functions, perhaps of several complex variables, with similar transformation properties. The generalization involves replacing the modular group PSL 2 (R) and a chosen congruence subgroup by a semisimple Lie group G and a discrete subgroup Γ .

Representation theory - Wikipedia
Siegel automorphic form correction of some Lorentzian Kac ... Monstrous moonshine and monstrous Lie superalgebras by Richard E. Borcherds - INVENT. MATH, 1992 "... We prove Conway and Norton ' s moonshine conjectures for the infinite dimensional representation of the monster simple group constructed by Frenkel, Lepowsky and Meurman. ...

CiteSeerX — Search Results — Christopher E. Moody
It is a Borcherds-Kac-Moody Lie algebra with Lorentzian root lattice; and has an associated automorphic form having a product expansion describing its structure. Lie superalgebras are generalizations of Lie algebras, useful for depicting supersymmetry - the symmetry relating fermions and bosons.

Algebra and Applications Ser.: Automorphic Forms and Lie ...
Automorphic Forms and Lie Superalgebras by Urmie Ray, 9781402050091, available at Book Depository with free delivery worldwide.

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Algebra and Applications: Automorphic Forms and Lie ...
tex dvi pdf Automorphic forms on O s+2,2 (R) + and generalized Kac-Moody algebras, (EXPOSITORY) Proceedings of the International Congress of Mathematicians, Vol. 1, 2 (Z ü rich, 1994), 744-752, Birkh ä user, Basel, 1995. tex dvi pdf The moduli space of Enriques surfaces and the fake monster Lie superalgebra, Topology vol. 35 no. 3, 699-710, 1996.

Papers by R. E. Borcherds
We describe the group of continous automorphisms of all simple infinite-dimensional linearly compact Lie superalgebras and use it in order to classify 픽-forms of these superalgebras over any field 픽 of characteristic zero.

AUTOMORPHISMS AND FORMS OF SIMPLE INFINITE-DIMENSIONAL ...
In this paper, we investigate the structure of graded Lie superalgebras L = ⊕ (α , a) ∈ Γ × A L (α , a), where Γ is a countable abelian semigroup and A is a countable abelian group with a coloring map satisfying a certain finiteness condition. Given a denominator identity for the graded Lie superalgebra L, we derive a superdimension formula for the homogeneous subspaces L (α , a) (α ...

This book provides the reader with the tools to understand the ongoing classification and construction project of Lie superalgebras. It presents the material in as simple terms as possible. Coverage specifically details Borcherds-Kac-Moody superalgebras. The book examines the link between the above class of Lie superalgebras and automorphic form and explains their construction from lattice vertex algebras. It also includes all necessary background information.

This edited volume presents a collection of carefully refereed articles covering the latest advances in Automorphic Forms and Number Theory, that were primarily developed from presentations given at the 2012 " International Conference on Automorphic Forms and Number Theory, " held in Muscat, Sultanate of Oman. The present volume includes original research as well as some surveys and outlines of research altogether providing a contemporary snapshot on the latest activities in the field and covering the topics of: Borcherds products Congruences and Codes Jacobi forms Siegel and Hermitian modular forms Special values of L-series Recently, the Sultanate of Oman became a member of the International Mathematical Society. In view of this development, the conference provided the platform for scientific exchange and collaboration between scientists of different countries from all over the world. In particular, an opportunity was established for a close exchange between scientists and students of Germany, Oman, and Japan. The conference was hosted by the Sultan Qaboos University and the German University of Technology in Oman.

This book presents a comprehensive treatment of important new ideas on Dirac operators and Dirac cohomology. Using Dirac operators as a unifying theme, the authors demonstrate how some of the most important results in representation theory fit together when viewed from this perspective. The book is an excellent contribution to the mathematical literature of representation theory, and this self-contained exposition offers a systematic examination and panoramic view of the subject. The material will be of interest to researchers and graduate students in representation theory, differential geometry, and physics.

This book gives a systematic account of the structure and representation theory of finite-dimensional complex Lie superalgebras of classical type and serves as a good introduction to representation theory of Lie superalgebras. Several folklore results are rigorously proved (and occasionally corrected in detail), sometimes with new proofs. Three important dualities are presented in the book, with the unifying theme of determining irreducible characters of Lie superalgebras. In order of increasing sophistication, they are Schur duality, Howe duality, and super duality. The combinatorics of symmetric functions is developed as needed in connections to Harish-Chandra homomorphism as well as irreducible characters for Lie superalgebras. Schur-Sergeev duality for the queer Lie superalgebra is presented from scratch with complete detail. Howe duality for Lie superalgebras is presented in book form for the first time. Super duality is a new approach developed in the past few years toward understanding the Bernstein-Gelfand-Gelfand category of modules for classical Lie superalgebras. Super duality relates the representation theory of classical Lie superalgebras directly to the representation theory of classical Lie algebras and thus gives a solution to the irreducible character problem of Lie superalgebras via the Kazhdan-Lusztig polynomials of classical Lie algebras.

This volume deals with various topics around equivariant holomorphic maps of Hermitian symmetric domains and is intended for specialists in number theory and algebraic geometry. In particular, it contains a comprehensive exposition of mixed automorphic forms that has never yet appeared in book form. The main goal is to explore connections among complex torus bundles, mixed automorphic forms, and Jacobi forms associated to an equivariant holomorphic map. Both number-theoretic and algebro-geometric aspects of such connections and related topics are discussed.

Detailed exposition of automorphic representations and their relation to string theory, for mathematicians and theoretical physicists.

Lie superalgebras are a natural generalization of Lie algebras, having applications in geometry, number theory, gauge field theory, and string theory. This book develops the theory of Lie superalgebras, their enveloping algebras, and their representations. The book begins with five chapters on the basic properties of Lie superalgebras, including explicit constructions for all the classical simple Lie superalgebras. Borel subalgebras, which are more subtle in this setting, are studied and described. Contragredient Lie superalgebras are introduced, allowing a unified approach to several results, in particular to the existence of an invariant bilinear form on $\mathfrak{g}$. The enveloping algebra of a finite dimensional Lie superalgebra is studied as an extension of the enveloping algebra of the even part of the superalgebra. By developing general methods for studying such extensions, important information on the algebraic structure is obtained, particularly with regard to primitive ideals. Fundamental results, such as the Poincare-Birkhoff-Witt Theorem, are established. Representations of Lie superalgebras provide valuable tools for understanding the algebras themselves, as well as being of primary interest in applications to other fields. Two important classes of representations are the Verma modules and the finite dimensional representations. The fundamental results here include the Jantzen filtration, the Harish-Chandra homomorphism, the Sapovalov determinant, supersymmetric polynomials, and Schur-Weyl duality. Using these tools, the center can be explicitly described in the general linear and orthosymplectic cases. In an effort to make the presentation as self-contained as possible, some background material is included on Lie theory, ring theory, Hopf algebras, and combinatorics.

This book presents a collection of carefully refereed research articles and lecture notes stemming from the Conference "Automorphic Forms and L-Functions", held at the University of Heidelberg in 2016. The theory of automorphic forms and their associated L-functions is one of the central research areas in modern number theory, linking number theory, arithmetic geometry, representation theory, and complex analysis in many profound ways. The 19 papers cover a wide range of topics within the scope of the conference, including automorphic L-functions and their special values, p-adic modular forms, Eisenstein series, Borcherds products, automorphic periods, and many more.

This book, part of the series Contributions in Mathematical and Computational Sciences, reviews recent developments in the theory of vertex operator algebras (VOAs) and their applications to mathematics and physics. The mathematical theory of VOAs originated from the famous monstrous moonshine conjectures of J.H. Conway and S.P. Norton, which predicted a deep relationship between the characters of the largest simple finite sporadic group, the Monster and the theory of modular forms inspired by the observations of J. MacKay and J. Thompson. The contributions are based on lectures delivered at the 2011 conference on Conformal Field Theory, Automorphic Forms and Related Topics, organized by the editors as part of a special program offered at Heidelberg University that summer under the sponsorship of the Mathematics Center Heidelberg (MATCH).