

Progress in Mathematics

# **Lie Theory and Geometry**

In Honor of Bertram Kostant

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# Geometric Analysis And Lie Theory In Mathematics And Physics

**Lisa Berger,Chris Hall,Rene  
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## **Geometric Analysis And Lie Theory In Mathematics And Physics:**

Geometric Analysis and Lie Theory in Mathematics and Physics Alan L. Carey, Michael K. Murray, 1998 Graduate lectures on the interface between mathematics and physics      Lie Theory and Its Applications in Physics Vladimir Dobrev, 2013-04-09

Traditionally Lie Theory is a tool to build mathematical models for physical systems Recently the trend is towards geometrisation of the mathematical description of physical systems and objects A geometric approach to a system yields in general some notion of symmetry which is very helpful in understanding its structure Geometrisation and symmetries are meant in their broadest sense i e classical geometry differential geometry groups and quantum groups infinite dimensional super algebras and their representations Furthermore we include the necessary tools from functional analysis and number theory This is a large interdisciplinary and interrelated field Samples of these new trends are presented in this volume based on contributions from the Workshop Lie Theory and Its Applications in Physics held near Varna Bulgaria in June 2011 This book is suitable for an extensive audience of mathematicians mathematical physicists theoretical physicists and researchers in the field of Lie Theory      *Basics of Representation Theory* Udayan Bhattacharya, 2025-02-20

Delve into the captivating world of Basics of Representation Theory a comprehensive guide designed for students researchers and enthusiasts eager to explore the intricate symmetries and structures that underpin modern mathematics Our book offers a detailed introduction to foundational concepts providing a solid understanding of group actions linear representations and character theory From there it explores the algebraic structures of irreducible representations breaking down the decomposition into irreducible components and examining the properties of characters Readers will journey through diverse topics including the representation theory of symmetric groups Lie groups and algebraic groups as well as advanced topics such as the representation theory of finite groups the Langlands program and applications in quantum mechanics and number theory With a wealth of examples illustrations and exercises Basics of Representation Theory ensures a hands on approach to learning encouraging practical exploration and problem solving The book also includes numerous references and further reading suggestions for those who wish to delve deeper into specific topics Written in a clear and accessible style this book caters to all levels from undergraduate students encountering representation theory for the first time to experienced researchers seeking fresh insights With its comprehensive coverage and diverse applications Basics of Representation Theory is an invaluable resource for anyone interested in the beauty and depth of this field      **Maximal Functions,**

**Littlewood-Paley Theory, Riesz Transforms and Atomic Decomposition in the Multi-Parameter Flag Setting**

Yongsheng Han, Ming-Yi Lee, Ji Li, Brett Wick, 2022-08-31 View the abstract      *Dualizable Tensor Categories* Christopher L. Douglas, Christopher Schommer-Pries, Noah Snyder, 2021-06-18 We investigate the relationship between the algebra of tensor categories and the topology of framed 3 manifolds On the one hand tensor categories with certain algebraic properties determine topological invariants We prove that fusion categories of nonzero global dimension are 3 dualizable and therefore

provide 3 dimensional 3 framed local eld theories We also show that all nite tensor cat egories are 2 dualizable and yield categori ed 2 dimensional 3 framed local eld theories On the other hand topological properties of 3 framed manifolds determine algebraic equations among functors of tensor categories We show that the 1 dimensional loop bordism which exhibits a single full rotation acts as the double dual autofunctor of a tensor category We prove that the 2 dimensional belt trick bordism which unravels a double rotation operates on any nite tensor category and therefore supplies a trivialization of the quadruple dual This approach produces a quadruple dual theorem for suitably dualizable objects in any symmetric monoidal 3 category There is furthermore a correspondence between algebraic structures on tensor categories and homotopy xed point structures which in turn provide structured eld theories we describe the expected connection between pivotal tensor categories and combed xed point structures and between spherical tensor categories and oriented xed point structures

Galois and Cleft Monoidal Cowreaths. Applications D. Bulacu,B. Torrecillas,2021-07-21 We introduce pre Galois and cleft monoidal cowreaths Generalizing a result of Schneider to any pre Galois cowreath we associate a pair of adjoint functors  $L \dashv R$  and give necessary and sufficient conditions for the adjunction to be an equivalence of categories Inspired by the work of Doi we also give sufficient conditions for  $L \dashv R$  to be an equivalence and consequently conditions under which a fundamental structure theorem for entwined modules over monoidal cowreaths holds We show that a cowreath is cleft if and only if it is Galois and has the normal basis property this generalizes a result concerning Hopf cleft extensions due to Doi and Takeuchi Furthermore we show that the cleft cowreaths are in a one to one correspondence with what we call cleft wreaths The latter are wreaths in the sense of Lack and Street equipped with two additional morphisms satisfying some compatibility relations Note that in general the algebras defined by cleft wreaths cannot be identified to generalized crossed product algebras as they were defined by Doi and Takeuchi and Blattner Cohen and Montgomery This becomes more transparent when we apply our theory to cowreaths defined by actions and coactions of a quasi Hopf algebra monoidal entwining structures and Doi Hopf structures respectively In particular we obtain that some constructions of Brzeziński and Schauenburg produce examples of cleft wreaths and therefore of cleft cowreaths too

**Effective Faithful Tropicalizations Associated to Linear Systems on Curves** Shu Kawaguchi,Kazuhiko Yamaki,2021-07-21 For a connected smooth projective curve  $X$  of genus  $g$  global sections of any line bundle  $L$  with  $\deg L \geq 2g - 1$  give an embedding of the curve into projective space We consider an analogous statement for a Berkovich skeleton in nonarchimedean geometry We replace projective space by tropical projective space and an embedding by a homeomorphism onto its image preserving integral structures or equivalently since  $X$  is a curve an isometry which is called a faithful tropicalization Let  $K$  be an algebraically closed field which is complete with respect to a nontrivial nonarchimedean value Suppose that  $X$  is defined over  $K$  and has genus  $g \geq 2$  and that is a skeleton that is allowed to have ends of the analytification  $X_{\text{an}}$  of  $X$  in the sense of Berkovich We show that if  $\deg L \geq 2g - 1$  then global sections of  $L$  give a faithful tropicalization of  $X$  into tropical projective space As an application when  $Y$  is a

suitable affine curve we describe the analytification  $Y_{an}$  as the limit of tropicalizations of an effectively bounded degree

**Traffic Distributions and Independence: Permutation Invariant Random Matrices and the Three Notions of Independence** Camille Male, 2021-02-10 Voiculescu's notion of asymptotic free independence is known for a large class of random matrices including independent unitary invariant matrices This notion is extended for independent random matrices invariant in law by conjugation by permutation matrices This fact leads naturally to an extension of free probability formalized under the notions of traffic probability The author first establishes this construction for random matrices and then defines the traffic distribution of random matrices which is richer than the distribution of free probability The knowledge of the individual traffic distributions of independent permutation invariant families of matrices is sufficient to compute the limiting distribution of the join family Under a factorization assumption the author calls traffic independence the asymptotic rule that plays the role of independence with respect to traffic distributions Wigner matrices Haar unitary matrices and uniform permutation matrices converge in traffic distributions a fact which yields new results on the limiting distributions of several matrices the author can construct from them Then the author defines the abstract traffic spaces as non commutative probability spaces with more structure She proves that at an algebraic level traffic independence in some sense unifies the three canonical notions of tensor free and Boolean independence A central limiting theorem is stated in this context interpolating between the tensor free and Boolean central limit theorems

**Global Smooth Solutions for the Inviscid SQG Equation** Angel Castro, Diego Cordoba, Javier Gomez-Serrano, 2020-09-28 In this paper the authors show the existence of the first non trivial family of classical global solutions of the inviscid surface quasi geostrophic equation

**On Stability of Type II Blow Up for the Critical Nonlinear Wave Equation in  $\mathbb{R}^{3+1}$**  Joachim K Krieger, 2021-02-10 The author shows that the finite time type II blow up solutions for the energy critical nonlinear wave equation  $\Box u = |u|^5$  on  $\mathbb{R}^{3+1}$  constructed in Krieger Schlag and Tataru 2009 and Krieger and Schlag 2014 are stable along a co dimension three manifold of radial data perturbations in a suitable topology provided the scaling parameter  $\lambda(t) \rightarrow 0$  is sufficiently close to the self similar rate i.e.  $\lambda(t) \rightarrow 0$  is sufficiently small Our method is based on Fourier techniques adapted to time dependent wave operators of the form  $\partial_t^2 u - \partial_r^2 u + \frac{2}{r} \partial_r u = V(\lambda(t)r)u$  for suitable monotone scaling parameters  $\lambda(t)$  and potentials  $V(r)$  with a resonance at zero

[Uniqueness of Fat-Tailed Self-Similar Profiles to Smoluchowski's Coagulation Equation for a Perturbation of the Constant Kernel](#) Sebastian Throm, 2021-09-24 View the abstract

[Explicit Arithmetic of Jacobians of Generalized Legendre Curves Over Global Function Fields](#) Lisa Berger, Chris Hall, Rene Pannekoek, Rachel Pries, Shahed Sharif, 2020-09-28 The authors study the Jacobian  $J$  of the smooth projective curve  $C$  of genus  $r-1$  with affine model  $y^r = x^{r-1} + t$  over the function field  $\mathbb{F}_p(t)$  when  $p$  is prime and  $r \geq 2$  is an integer prime to  $p$  When  $q$  is a power of  $p$  and  $d$  is a positive integer the authors compute the  $L$  function of  $J$  over  $\mathbb{F}_q(t^{1/d})$  and show that the Birch and Swinnerton Dyer conjecture holds for  $J$  over  $\mathbb{F}_q(t^{1/d})$

**Stability of Heat Kernel**

**Estimates for Symmetric Non-Local Dirichlet Forms** Zhen-Qing Chen, Takashi Kumagai, Jian Wang, 2021-09-24 View the abstract  
**C-Projective Geometry** David M Calderbank, Michael G. Eastwood, Vladimir S. Matveev, Katharina

Neusser, 2021-02-10 The authors develop in detail the theory of almost  $c$  projective geometry a natural analogue of projective differential geometry adapted to almost complex manifolds The authors realise it as a type of parabolic geometry and describe the associated Cartan or tractor connection A Kähler manifold gives rise to a  $c$  projective structure and this is one of the primary motivations for its study The existence of two or more Kähler metrics underlying a given  $c$  projective structure has many ramifications which the authors explore in depth As a consequence of this analysis they prove the Yano Obata Conjecture for complete Kähler manifolds if such a manifold admits a one parameter group of  $c$  projective transformations that are not affine then it is complex projective space equipped with a multiple of the Fubini Study metric

**Cohomological Tensor Functors on Representations of the General Linear Supergroup** Thorsten

Heidersdorf, Rainer Weissauer, 2021-07-21 We define and study cohomological tensor functors from the category  $T_n$  of finite dimensional representations of the supergroup  $GL(n|n)$  into  $T_n(r)$  for  $0 \leq r \leq n$  In the case  $DS(T_n, T_{n-1})$  we prove a formula  $DS(L, n|L)$  for the image of an arbitrary irreducible representation In particular  $DS(L)$  is semisimple and multiplicity free We derive a few applications of this theorem such as the degeneration of certain spectral sequences and a formula for the modified superdimension of an irreducible representation

Dynamics Near the Subcritical Transition of the 3D Couette Flow I: Below Threshold Case Jacob Bedrossian, Pierre Germain, Nader Masmoudi, 2020-09-28 The authors study small disturbances to the periodic plane Couette flow in the 3D incompressible Navier Stokes equations at high Reynolds number  $Re$  They prove that for sufficiently regular initial data of size  $\epsilon \leq c_0 Re^{-1}$  for some universal  $c_0 > 0$  the solution is global remains within  $O(c_0)$  of the Couette flow in  $L^2$  and returns to the Couette flow as  $t \rightarrow \infty$  For times  $t \gtrsim Re^{1/3}$  the streamwise dependence is damped by a mixing enhanced dissipation effect and the solution is rapidly attracted to the class of 2.5 dimensional streamwise independent solutions referred to as streaks

Łojasiewicz-Simon Gradient Inequalities for Coupled Yang-Mills Energy Functionals Paul M Feehan, Manoussos Maridakis, 2021-02-10 The authors primary goal in this monograph is to prove Łojasiewicz-Simon gradient inequalities for coupled Yang-Mills energy functions using Sobolev spaces that impose minimal regularity requirements on pairs of connections and sections

**Conformal Symmetry Breaking Differential Operators on Differential Forms** Matthias Fischmann, Andreas Juhl, Petr Somberg, 2021-06-18 We study conformal symmetry breaking differential operators which map differential forms on  $R^n$  to differential forms on a codimension one subspace  $R^{n-1}$  These operators are equivariant with respect to the conformal Lie algebra of the subspace  $R^{n-1}$  They correspond to homomorphisms of generalized Verma modules for  $so(n-1)$  into generalized Verma modules for  $so(n-1, 1)$  both being induced from fundamental form representations of a parabolic subalgebra We apply the F-method to derive explicit formulas for such homomorphisms In particular we find explicit formulas for the

generators of the intertwining operators of the related branching problems restricting generalized Verma modules for  $so(n-1, 1)$  to  $so(n-1)$ . As consequences we derive closed formulas for all conformal symmetry breaking differential operators in terms of the first order operators  $d$  and  $\bar{d}$  and certain hypergeometric polynomials. A dominant role in these studies is played by two infinite sequences of symmetry breaking differential operators which depend on a complex parameter. Their values at special values of  $\lambda$  appear as factors in two systems of factorization identities which involve the Branson-Govorkova operators of the Euclidean metrics on  $R^n$  and  $R^{n-1}$  and the operators  $d$  and  $\bar{d}$  and as factors respectively. Moreover they naturally recover the gauge companion and  $Q$ -curvature operators of the Euclidean metric on the subspace  $R^{n-1}$  respectively.

*Moufang Loops and Groups with Triality are Essentially the Same Thing* J. I. Hall, 2019-09-05 In 1925 Lie Cartan introduced the principle of triality specifically for the Lie groups of type  $D_4$  and in 1935 Ruth Moufang initiated the study of Moufang loops. The observation of the title in 1978 was made by Stephen Doro who was in turn motivated by the work of George Glauberman from 1968. Here the author makes the statement precise in a categorical context. In fact the most obvious categories of Moufang loops and groups with triality are not equivalent hence the need for the word essentially.

*Automorphisms of Two-Generator Free Groups and Spaces of Isometric Actions on the Hyperbolic Plane* William Goldman, Greg McShane, George Stantchev, Ser Peow Tan, 2019-06-10 The automorphisms of a two generator free group  $F$  acting on the space of orientation preserving isometric actions of  $F$  on hyperbolic 3 space defines a dynamical system. Those actions which preserve a hyperbolic plane but not an orientation on that plane is an invariant subsystem which reduces to an action of a group on  $\mathbb{P}^1$  by polynomial automorphisms preserving the cubic polynomial and an area form on the level surfaces.

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