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Memorandum For Mathematics Paper 1 September 2013

Terry C. Jones



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Mathematics And Its Teaching In The Southern Americas: With An Introduction By Ubiratan D'ambrosio

Hector Rosario, Bruce R Vogeli, Patrick Scott, 2014-09-26 This anthology presents a comprehensive review of mathematics and its teaching in the following nations in South America Central America and the Caribbean Argentina Bolivia Brazil Chile Colombia Costa Rica Cuba Guyana Haiti Honduras Mexico Panama Paraguay Peru Puerto Rico Trinidad and Tobago and Venezuela The last summary of mathematics education encompassing countries from the Southern Americas appeared in 1966 Progress in the field during five decades has remained unexamined until now

Descent Construction for $GSpin$ Groups Joseph Hundley, Eitan Sayag, 2016-09-06 In this paper the authors provide an extension of the theory of descent of Ginzburg Rallis Soudry to the context of essentially self dual representations that is representations which are isomorphic to the twist of their own contragredient by some Hecke character The authors theory supplements the recent work of Asgari Shahidi on the functorial lift from split and quasisplit forms of $GSpin_{2n}$ to GL_{2n}

Formality of the Little \mathbb{N} -disks Operad Pascal Lambrechts, Ismar Volić, 2014-06-05 The little disks operad along with its variants is an important tool in homotopy theory It is defined in terms of configurations of disjoint dimensional disks inside the standard unit disk in and it was initially conceived for detecting and understanding fold loop spaces Its many uses now stretch across a variety of disciplines including topology algebra and mathematical physics In this paper the authors develop the details of Kontsevich's proof of the formality of little disks operad over the field of real numbers More precisely one can consider the singular chains on as well as the singular homology of These two objects are operads in the category of chain complexes The formality then states that there is a zig zag of quasi isomorphisms connecting these two operads The formality also in some sense holds in the category of commutative differential graded algebras The authors additionally prove a relative version of the formality for the inclusion of the little disks operad in the little disks operad when

Hitting Probabilities for Nonlinear Systems of Stochastic Waves Robert C. Dalang, Marta Sanz-Solé, 2015-08-21 The authors consider a d dimensional random field u on $\mathbb{R}^d \times \mathbb{R}$ that solves a non linear system of stochastic wave equations in spatial dimensions $k = 1, 2, 3$ driven by a spatially homogeneous Gaussian noise that is white in time They mainly consider the case where the spatial covariance is given by a Riesz kernel with exponent Using Malliavin calculus they establish upper and lower bounds on the probabilities that the random field visits a deterministic subset of \mathbb{R}^d in terms respectively of Hausdorff measure and Newtonian capacity of this set The dimension that appears in the Hausdorff measure is close to optimal and shows that when $d \geq 2k + 1$ points are polar for u Conversely in low dimensions d points are not polar There is however an interval in which the question of polarity of points remains open

Exotic Cluster Structures on SL_n : The Cremmer-Gervais Case M. Gekhtman, M. Shapiro, A. Vainshtein, 2017-02-20 This is the second paper in the series of papers dedicated to the study of natural cluster structures in the rings of regular functions on simple complex Lie groups and Poisson Lie structures compatible with these cluster

structures According to our main conjecture each class in the Belavin Drinfeld classification of Poisson Lie structures on corresponds to a cluster structure in The authors have shown before that this conjecture holds for any in the case of the standard Poisson Lie structure and for all Belavin Drinfeld classes in In this paper the authors establish it for the Cremmer Gervais Poisson Lie structure on which is the least similar to the standard one Irreducible Geometric Subgroups of Classical Algebraic Groups Timothy C. Burness,,Soumaïa Ghandour,Donna M. Testerman,2016-01-25 Let G be a simple classical algebraic group over an algebraically closed field of characteristic $p > 0$ with natural module V Let H be a closed subgroup of G and let ρ be a non trivial irreducible tensor indecomposable restricted rational module such that the restriction of ρ to H is irreducible In this paper the authors classify the triples of this form where H is a disconnected maximal positive dimensional closed subgroup of G preserving a natural geometric structure on V

Social Robots in Education Georgios Lampropoulos,Stamatios Papadakis,2025-05-03 This book focuses on recent advances in the field of social robots and their integration in education It elaborates on the progressive evolution of human robot interaction and educational robotics the emergence of digital pedagogy and the implementation of personalized learning methodologies The book also examines the use of artificial intelligence AI in education through the lenses of social robots Hence the book offers an overview of recent research into the adoption integration advancements and impact of social robots and AI in education and presents guidelines and suggestions on how to integrate them in classrooms Specifically the book Provides an in depth overview of social robots and their use in education Presents the advances of social robots and AI in education Showcases innovative solutions and outcomes of integrating social robots in classrooms Discusses the challenges benefits and future research directions of using social robots and AI in education

On Sudakov's Type Decomposition of Transference Plans with Norm Costs Stefano Bianchini,Sara Daneri,2018-02-23 The authors consider the original strategy proposed by Sudakov for solving the Monge transportation problem with norm cost with probability measures in \mathbb{R}^d and absolutely continuous w r t \mathcal{H}^d The key idea in this approach is to decompose via disintegration of measures the Kantorovich optimal transportation problem into a family of transportation problems in \mathbb{R}^d where are disjoint regions such that the construction of an optimal map is simpler than in the original problem and then to obtain $\mu \ll \mathcal{H}^d$ by piecing together the maps When the norm is strictly convex the sets are a family of dimensional segments determined by the Kantorovich potential called optimal rays while the existence of the map is straightforward provided one can show that the disintegration of μ and thus of ν on such segments is absolutely continuous w r t the dimensional Hausdorff measure When the norm is not strictly convex the main problems in this kind of approach are two first to identify a suitable family of regions on which the transport problem decomposes into simpler ones and then to prove the existence of optimal maps In this paper the authors show how these difficulties can be overcome and that the original idea of Sudakov can be successfully implemented The results yield a complete characterization of the Kantorovich optimal transportation problem whose straightforward corollary is the solution of the Monge problem in each set and then in The

strategy is sufficiently powerful to be applied to other optimal transportation problems [Federal Register](#) ,2013-06 *On the Nodal Set of Solutions to a Class of Nonlocal Parabolic Equations* Alessandro Audrito,Susanna Terracini,2024-10-23 View the abstract

A Vector Field Method on the Distorted Fourier Side and Decay for Wave Equations with Potentials Roland Donninger,Joachim Krieger,2016-04-26 The authors study the Cauchy problem for the one dimensional wave equation $\partial_t^2 u + \partial_x^2 u + V(x)u = 0$ The potential V is assumed to be smooth with asymptotic behavior $V(x) \sim |x|^{-2}$ as $|x| \rightarrow \infty$ They derive dispersive estimates energy estimates and estimates involving the scaling vector field $t\partial_t + x\partial_x$ where the latter are obtained by employing a vector field method on the distorted Fourier side In addition they prove local energy decay estimates Their results have immediate applications in the context of geometric evolution problems The theory developed in this paper is fundamental for the proof of the co dimension 1 stability of the catenoid under the vanishing mean curvature flow in Minkowski space see Donninger Krieger Szeftel and Wong Codimension one stability of the catenoid under the vanishing mean curvature flow in Minkowski space preprint arXiv 1310.5606 2013

A Geometric Theory for Hypergraph Matching Peter Keevash, Richard Mycroft,2014-12-20 The authors develop a theory for the existence of perfect matchings in hypergraphs under quite general conditions Informally speaking the obstructions to perfect matchings are geometric and are of two distinct types space barriers from convex geometry and divisibility barriers from arithmetic lattice based constructions To formulate precise results they introduce the setting of simplicial complexes with minimum degree sequences which is a generalisation of the usual minimum degree condition They determine the essentially best possible minimum degree sequence for finding an almost perfect matching Furthermore their main result establishes the stability property under the same degree assumption if there is no perfect matching then there must be a space or divisibility barrier This allows the use of the stability method in proving exact results Besides recovering previous results the authors apply our theory to the solution of two open problems on hypergraph packings the minimum degree threshold for packing tetrahedra in graphs and Fischer's conjecture on a multipartite form of the Hajnal Szemerédi Theorem Here they prove the exact result for tetrahedra and the asymptotic result for Fischer's conjecture since the exact result for the latter is technical they defer it to a subsequent paper

[The Mathematical-Function Computation Handbook](#) Nelson H.F. Beebe,2017-08-20 This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of mathematics extending the function coverage of major programming languages well beyond their international standards including full support for decimal floating point arithmetic Written with clarity and focusing on the C language the work pays extensive attention to little understood aspects of floating point and integer arithmetic and to software portability as well as to important historical architectures It extends support to a future 256 bit floating point format offering 70 decimal digits of precision Select Topics and Features references an exceptionally useful author maintained MathCW website containing source code for the book's software compiled libraries for numerous systems pre built C compilers and other related

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Applications of Polyfold Theory I: The Polyfolds of Gromov-Witten Theory H. Hofer, K. Wysocki, E. Zehnder, 2017-07-13 In this paper the authors start with the construction of the symplectic field theory SFT As a general theory of symplectic invariants SFT has been outlined in Introduction to symplectic field theory 2000 by Y Eliashberg A Givental and H Hofer who have predicted its formal properties The actual construction of SFT is a hard analytical problem which will be overcome by means of the polyfold theory due to the present authors The current paper addresses a significant amount of the arising issues and the general theory will be completed in part II of this paper To illustrate the polyfold theory the authors use the results of the present paper to describe an alternative construction of the Gromov Witten invariants for general compact symplectic manifolds

Homological Mirror Symmetry for the Quartic Surface Paul Seidel, 2015-06-26 The author proves Kontsevich s form of the mirror symmetry conjecture for on the symplectic geometry side a quartic surface in $\mathbb{C}P^3$

Applications of Data Assimilation and Inverse Problems in the Earth Sciences Alik Ismail-Zadeh, Fabio Castelli, Dylan Jones, Sabrina Sanchez, 2023-07-06 Many contemporary problems within the Earth sciences are complex and require an interdisciplinary approach This book provides a comprehensive reference on data assimilation and inverse problems as well as their applications across a broad range of geophysical disciplines With contributions from world leading researchers it covers basic knowledge about geophysical inversions and data assimilation and discusses a range of important research issues and applications in atmospheric and cryospheric sciences hydrology geochronology geodesy geodynamics geomagnetism gravity near Earth electron radiation seismology and volcanology Highlighting the importance of research in data assimilation for understanding dynamical processes of the Earth and its space environment and for predictability it summarizes relevant new advances in data assimilation and inverse problems related to different geophysical fields Covering both theory and practical applications it is an ideal reference for researchers and graduate students within the geosciences who are interested in inverse problems data assimilation predictability and numerical methods

Algebraic $\overline{\mathbb{Q}}$ -Groups as Abstract Groups Olivier Frécon, 2018-10-03 The author

analyzes the abstract structure of algebraic groups over an algebraically closed field of characteristic zero and a given connected affine algebraic group the main theorem describes all the affine algebraic groups such that the groups and are isomorphic as abstract groups In the same time it is shown that for any two connected algebraic groups and the elementary equivalence of the pure groups and implies that they are abstractly isomorphic In the final section the author applies his results to characterize the connected algebraic groups all of whose abstract automorphisms are standard when is either Q or of positive characteristic In characteristic zero a fairly general criterion is exhibited

An Illustrated Guide to Linear Programming Saul I. Gass, 2013-04-09 Entertaining nontechnical introduction covers basic concepts of linear programming and its relationship to operations research geometric interpretation and problem solving solution techniques network problems much more Only high school algebra needed

On the Differential Structure of Metric Measure Spaces and Applications Nicola Gigli, 2015-06-26 The main goals of this paper are i To develop an abstract differential calculus on metric measure spaces by investigating the duality relations between differentials and gradients of Sobolev functions This will be achieved without calling into play any sort of analysis in charts our assumptions being the metric space is complete and separable and the measure is Radon and non negative ii To employ these notions of calculus to provide via integration by parts a general definition of distributional Laplacian thus giving a meaning to an expression like where f is a function and μ is a measure iii To show that on spaces with Ricci curvature bounded from below and dimension bounded from above the Laplacian of the distance function is always a measure and that this measure has the standard sharp comparison properties This result requires an additional assumption on the space which reduces to strict convexity of the norm in the case of smooth Finsler structures and is always satisfied on spaces with linear Laplacian a situation which is analyzed in detail

Digital Technology and the Practices of Humanities Research Jennifer Edmond, 2020-01-30 How does technology impact research practices in the humanities How does digitisation shape scholarly identity How do we negotiate trust in the digital realm What is scholarship what forms can it take and how does it acquire authority This diverse set of essays demonstrate the importance of asking such questions bringing together established and emerging scholars from a variety of disciplines at a time when data is increasingly being incorporated as an input and output in humanities sources and publications Major themes addressed include the changing nature of scholarly publishing in a digital age the different kinds of gate keepers for scholarship and the difficulties of effectively assessing the impact of digital resources The essays bring theoretical and practical perspectives into conversation offering readers not only comprehensive examinations of past and present discourse on digital scholarship but tightly focused case studies This timely volume illuminates the different forces underlying the shifting practices in humanities research today with especial focus on how humanists take ownership of and are empowered by technology in unexpected ways *Digital Technology and the Practices of Humanities Research* is essential reading for scholars students and general readers interested in the changing culture of research practices in the humanities and in the

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