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MEMORANDUM

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November 2013 Mathematics Paper 1 Memo

Ying-Ying Zheng



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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 **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 \mathbb{R}^n 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 **A Vector Field Method on the Distorted Fourier**

Side and Decay for Wave Equations with Potentials Roland Donn timer, 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 codimension 1 stability of the catenoid under the vanishing mean curvature flow in Minkowski space see Donn timer Krieger Szeftel and Wong Codimension one stability of the catenoid under the vanishing mean curvature flow in Minkowski space preprint arXiv 1310.5606 2013

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 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 this paper the authors establish it for the Cremmer Gervais Poisson Lie

structure on which is the least similar to the standard one

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}

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 and absolutely continuous w r t 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 where are disjoint regions such that the construction of an optimal map is simpler than in the original problem and then to obtain 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 and thus of 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

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

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 with natural module V Let H be a closed subgroup of G and let T be a non trivial irreducible tensor indecomposable

restricted rational module such that the restriction of ω to \mathcal{H} is irreducible. In this paper the authors classify the triples of this form where \mathcal{H} is a disconnected maximal positive dimensional closed subgroup of preserving a natural geometric structure on \mathcal{H} .

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 $\mathbb{C}P^3$.

Advancing the Frontiers of Heterodox Economics Tae-Hee Jo, Zdravka Todorova, 2015-07-30 This collection of essays honors the life and work of one of the most prominent and fervent heterodox economists Frederic S Lee who has been at the heart of the heterodox economics movements for the past three decades. Authors in this book demonstrate that heterodox economic has transcended the criticism of mainstream economics and more importantly that constructive developments are in the making by way of cross communications among various heterodox economics traditions. Frederic S Lee's contributions to heterodox economics are centered on three themes: the making of a history and identity of heterodox economics, heterodox microeconomics and the heterodox analysis of social provisioning. Part I addresses the importance of history, theory, research methods and institutions in the making of the identity of heterodox economics as an alternative to mainstream economics. Part II delves into heterodox microeconomic theories in particular investment, pricing, competition, markets and market governance as foundations of heterodox macroeconomic analyses. Part III expands the analysis of the capitalist social provisioning process with an emphasis on its subsystems and their relationships over historical time. Part IV encapsulates the life and work of Frederic S Lee. Throughout his intellectual life Frederic S Lee has shown to many that the development of heterodox economics is rendered possible by unselfish and ceaseless efforts to build both theory and institutions. Essays in this book attest that establishing an alternative critical theory to the status quo is not only possible but also serviceable to the majority of the population.

Curvature: A Variational Approach A. Agrachev, D. Barilari, L. Rizzi, 2019-01-08 The curvature discussed in this paper is a far reaching generalization of the Riemannian sectional curvature. The authors give a unified definition of curvature which applies to a wide class of geometric structures whose geodesics arise from optimal control problems including Riemannian, sub-Riemannian, Finsler and sub-Finsler spaces. Special attention is paid to the sub-Riemannian or Carnot-Carathéodory metric spaces. The authors' construction of curvature is direct and naive and similar to

the original approach of Riemann In particular they extract geometric invariants from the asymptotics of the cost of optimal control problems Surprisingly it works in a very general setting and in particular for all sub Riemannian spaces

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 is a function and 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

Culture and Human-Robot Interaction in Militarized Spaces Dr Julie Carpenter, 2016-01-28 Explosive Ordnance Disposal EOD personnel are some of the most highly trained people in the military with a job description that spans defusing unexploded ordnance to protecting VIP s and state dignitaries EOD are also one of the first military groups to work with robots every day These robots have become an increasingly important tool in EOD work enabling people to work at safer distances in many dangerous situations Based on exploratory research investigating interactions between EOD personnel and the robots they use this study richly describes the nuances of these reciprocal influences especially those related to operator emotion associated with the robots In particular this book examines the activities processes and contexts that influence or constrain everyday EOD human robot interactions what human factors are shaping the robotic technology and how people and culture are being changed by using it The findings from this research have implications for future personnel training and the refinement of robot design considerations for many fields that rely on critical small group communication and decision making skills

Irreducible Almost Simple Subgroups of Classical Algebraic Groups Timothy C. Burness, Soumaia Ghandour, Claude Marion, Donna M. Testerman, 2015-06-26 Let G be a simple classical algebraic group over an algebraically closed field of characteristic p with natural module V Let H be a closed subgroup of G and let W be a nontrivial restricted irreducible tensor indecomposable rational module such that the restriction of W to H is irreducible In this paper the authors classify the triples of this form where H and W is a disconnected almost simple positive dimensional closed subgroup of acting irreducibly on W Moreover by combining this result with earlier work they complete the classification of the irreducible triples where H is a simple algebraic group over k and W is a maximal closed subgroup of positive dimension

Government Reports Announcements, 1974

Thorium Energy for the World Jean-Pierre Revol, Maurice Bourquin, Yacine Kadi, Egil Lillestøl, Jean-Christophe de Mestral, Karel Samec, 2016-04-05 The Thorium Energy Conference

ThEC13 gathered some of the world's leading experts on thorium technologies to review the possibility of destroying nuclear waste in the short term and replacing the uranium fuel cycle in nuclear systems with the thorium fuel cycle in the long term. The latter would provide abundant, reliable and safe energy with no CO₂ production, no air pollution and minimal waste production. The participants' representatives of 30 countries included Carlo Rubbia, Nobel Prize Laureate in physics and inventor of the Energy Amplifier; Jack Steinberger, Nobel Prize Laureate in physics; Hans Blix, former Director General of the International Atomic Energy Agency (IAEA); Rolf Heuer, Director General of CERN; Pascal Couchepin, former President of the Swiss Confederation; and Claude Haegi, President of the FEDRE, to name just a few. The ThEC13 proceedings are a source of reference on the use of thorium for energy generation. They offer detailed technical reviews of the status of thorium energy technologies from basic R & D to industrial developments. They also describe how thorium can be used in critical reactors and in subcritical accelerator-driven systems (ADS), answering the important questions: Why is thorium so attractive and what is the role of innovation in particular in the nuclear energy domain? What are the national and international R & D programs on thorium technologies and how are they progressing? ThEC13 was organized jointly by the international Thorium Energy Committee (iThEC), an association based in Geneva, and the International Thorium Energy Organisation (IThEO). It was held in the Globe of Science and Innovation at the European Organization for Nuclear Research (CERN), Geneva, Switzerland, in October 2013.

Economic and Geopolitical Perspectives of the Commonwealth of Independent States and Eurasia Karnaukhova, Oxana, Udovikina, Alexandra, Christiansen, Bryan, 2018-06-01. The Commonwealth of Independent States (CIS) is a regional organization that formed during the breakup of the Soviet Union in 1991. It has few supranational powers but aims to be more than a purely symbolic organization, nominally possessing coordinating powers in the realm of trade, finance, lawmaking and security. As such, it is vital to examine this region and its economic and geopolitical impacts on the world. *Economic and Geopolitical Perspectives of the Commonwealth of Independent States and Eurasia* is a vital research publication that explores the importance and influence of the Commonwealth of Independent States and Eurasia in the twenty-first century. Highlighting a wide range of topics such as sovereign democracy, economic integration and foreign policy, this book is geared toward business managers, economists, business professionals, entrepreneurs, business analysts and researchers seeking current research on the effects of political organizations like the CIS on various regions.

Nonlinear Hyperbolic Equations — Theory, Computation Methods, and Applications Josef Ballmann, Rolf Jeltsch, 2013-03-08. On the occasion of the International Conference on Nonlinear Hyperbolic Problems held in St Etienne, France, 1986, it was decided to start a two-year cycle of conferences on this very rapidly expanding branch of mathematics and its applications in Continuum Mechanics and Aerodynamics. The second conference took place in Aachen, FRG, March 14–18, 1988. The number of more than 200 participants from more than 20 countries all over the world and about 100 invited and contributed papers, well balanced between theory, numerical analysis and applications, do not leave any doubt that it was the right

decision to start this cycle of conferences of which the third will be organized in Sweden in 1990. This volume contains sixty eight original papers presented at the conference twenty two of them dealing with the mathematical theory e.g. existence uniqueness stability behaviour of solutions physical modelling by evolution equations. Twenty two articles in numerical analysis are concerned with stability and convergence to the physically relevant solutions such as schemes especially devised for treating shocks contact discontinuities and artificial boundaries. Twenty four papers contain multidimensional computational applications to nonlinear waves in solids flow through porous media and compressible fluid flow including shocks real gas effects multiphase phenomena chemical reactions etc. The editors and organizers of the Second International Conference on Hyperbolic Problems would like to thank the Scientific Committee for the generous support of recommending invited lectures and selecting the contributed papers of the conference.

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