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**GRADE 11/GRAAD 11**

**MATHEMATICS P1/WISKUNDE VI**

**NOVEMBER 2013**

**MEMORANDUM**

**MARKS/PUNTE: 150**

**This memorandum consists of 14 pages.  
*Hierdie memorandum bestaan uit 14 bladsye.***

# Mathematics Paper 1 November 2013 Memorandum

**Roland Donninger, Joachim Krieger**



## **Mathematics Paper 1 November 2013 Memorandum:**

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

**Disorder and the Disinformation Society** Jonathan Paul Marshall, James Goodman, Didar Zowghi, Francesca da Rimini, 2015-04-17 This book is the first general social analysis that seriously considers the daily experience of information disruption and software failure within contemporary Western society Through an investigation of informationalism defined as a contemporary form of capitalism it describes the social processes producing informational disorder While most social theory sees disorder as secondary pathological or uninteresting this book takes disordering processes as central to social life The book engages with theories of information society which privilege information order offering a strong counterpoint centred on disinformation Disorder and the Disinformation Society offers a practical agenda arguing that difficulties in producing software are both inherent to the process of developing software and in the social dynamics of informationalism It outlines the dynamics of software failure as they impinge on information workers and on daily life explores why computerized finance has become inherently self disruptive asks how digital enclosure and intellectual property create conflicts over cultural creativity and disrupt informational accuracy and scholarship and reveals how social media can extend but also distort the development of social movements

**Formality of the Little  $\mathbb{N}\mathbb{S}$ -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

**Descent Construction for  $\mathrm{GSpin}$  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  $\mathrm{GSpin}_{2n}$  to  $\mathrm{GL}_{2n}$  **Federal Register** ,2013-06 **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  $\partial_t u + \partial_x (V u) = 0$  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 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

**Irreducible Geometric Subgroups of Classical Algebraic Groups** Timothy C. Burness,, Soumaia 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  $W$  be a non trivial irreducible tensor indecomposable restricted rational module such that the restriction of  $W$  to  $H$  is irreducible In this paper the authors classify the triples of this form where  $H$  is a disconnected maximal positive dimensional closed subgroup of  $G$  preserving a natural geometric structure on  $V$  **Studies in Intelligence** ,2016 **Fluid Mechanics and Hydraulics** Vedat Batu, 2024-05-27 Fluid Mechanics and Hydraulics

Illustrative Worked Examples of Surface and Subsurface Flows presents the basic principles of fluid mechanics through the use of numerous worked examples Some readers may have interest only in the application parts of various principles without paying too much attention to the derivation details of equations Other readers may have interest both in derivation details and their applications As a result this book is designed to address both needs and most derivation details are included as example problems Therefore those who are not interested in the details of derivations may skip them without interrupting the effective use of the book It serves as an effective learning source for college students and as a teaching tool for instructors with an included solutions manual as well as for practicing professionals in the areas of fluid mechanics and hydraulics **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  $\mu$  and  $\nu$  absolutely continuous w r t  $\lambda$  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  $\gamma$  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 **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 *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 Carath odory 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 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  $\mathbb{C}$  **Integer Programming and Related Areas** C. Kastning, 2013-11-11 Integer Programming is one of the most fascinating and difficult areas in the field of Mathematical Optimization Due to this fact notable research contributions to Integer Programming have been made in very different branches of mathematics and its applications Since these publications are scattered over many journals proceedings volumes monographs and working papers a comprehensive bibliography of all these sources is a helpful tool even for specialists in this field I initiated this compilation of literature in 1970 at the Institut für Konometrie und Operations Research University of Bonn Since then many collaborators have contributed to and worked on it Among them Dipl Math Claus Kastning has done the bulk of the work With great perseverance and diligence he has gathered all the material and checked it with the original sources The main aim was to incorporate rare and not easily accessible sources like Russian journals preprints or unpublished papers Without the invaluable and dedicated engagement of Claus Kastning the bibliography would never have reached this final version For this reason he must be considered its responsible editor As with any other collection this literature list has a subjective viewpoint and may be in some sense incomplete We have however tried to be as complete as possible The bibliography contains 4704 different publications by 6767 authors which were classified by 11839 descriptor entries **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 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 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 *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

**Where Have All the Democrats Gone?** Ruy Teixeira, John B. Judis, 2023-11-07 A Wall Street Journal Best Political Book of 2023 A much needed wake up call for the Democrats which reveals how the party has lost sight of its core principles and endangered its political future from the authors of one of the most influential political books of the 21st century The New York Times For decades American politics has been plagued by a breakdown between the Democratic and Republican parties in which victory has inevitably led to defeat and vice versa Both parties have lost sight of the people at the center of the American electorate leading to polarization and paralysis In *Where Have All the Democrats Gone* John B Judis and Ruy

Teixeira reveal the tectonic changes shaping the country's current political landscape that both pundits and political scientists have missed. The Democratic Party once the preserve of small towns as well as big cities and of the industrial working class and the newly immigrated has abandoned and even actively alienated many of these voters. In this clarion call and essential argument for common sense and common ground Judis and Teixeira reveal the transformation of American politics and provide a razor sharp critique of where the Democrats have gone awry and how they can avoid political disaster in the days ahead.



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