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**MEMORANDUM**

**MARKS: 150**

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# **Memorandum For November 2010 Mathematics Paper 2**

**Matthew Harrison-Trainor**



Memorandum For November 2010 Mathematics Paper 2

**Quiver Grassmannians of Extended Dynkin Type D Part I: Schubert Systems and Decompositions into Affine Spaces** Oliver Lorscheid, Thorsten Weist, 2019-12-02 Let  $Q$  be a quiver of extended Dynkin type  $D_n$ . In this first of two papers the authors show that the quiver Grassmannian  $\text{Gr}_e M$  has a decomposition into affine spaces for every dimension vector  $e$  and every indecomposable representation  $M$  of defect 1 and defect 0 with the exception of the non Schurian representations in homogeneous tubes. The authors characterize the affine spaces in terms of the combinatorics of a fixed coefficient quiver for  $M$ . The method of proof is to exhibit explicit equations for the Schubert cells of  $\text{Gr}_e M$  and to solve this system of equations successively in linear terms. This leads to an intricate combinatorial problem for whose solution the authors develop the theory of Schubert systems. In Part 2 of this pair of papers they extend the result of this paper to all indecomposable representations  $M$  of  $Q$  and determine explicit formulae for the  $F$  polynomial of  $M$ .

**Formality of the Little  $\mathbb{R}$ -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 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 the 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, which 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

**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 that 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  $\int \Delta f \phi$  where  $f$  is a function and  $\phi$  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.

**Fundamental Solutions and Local Solvability for Nonsmooth Hormander's Operators** Marco Bramanti, Luca Brandolini, Maria Manfredini, Marco Pedroni, 2017-09-25 The authors consider operators of the form  $\Delta + b \cdot \nabla$  in a bounded domain  $\Omega$  where  $b$  are nonsmooth Hormander's vector fields of step  $s$  such that the highest order commutators are only Hölder continuous. Applying Levi's parametrix method, the authors construct a local fundamental solution for  $\Delta + b \cdot \nabla$  and provide growth estimates for it and its first derivatives with respect to the vector fields. Requiring the existence of one more derivative of the coefficients, the authors prove that  $\Delta + b \cdot \nabla$  also possesses second derivatives and they deduce the local solvability of constructing by means of a solution to  $\Delta + b \cdot \nabla u = f$  with Hölder continuous  $f$ . The authors also prove estimates on this solution.

Degree Spectra of Relations on a Cone Matthew Harrison-Trainor,2018-05-29 Let  $\mathcal{A}$  be a mathematical structure with an additional relation  $R$  The author is interested in the degree spectrum of  $R$  either among computable copies of  $\mathcal{A}$  when  $\mathcal{A}$  is a natural structure or to make this rigorous among copies of  $\mathcal{A}$   $R$  computable in a large degree  $d$  He introduces the partial order of degree spectra on a cone and begin the study of these objects Using a result of Harizanov that assuming an effectiveness condition on  $\mathcal{A}$  and  $R$  if  $R$  is not intrinsically computable then its degree spectrum contains all  $c \leq d$  degrees the author shows that there is a minimal non trivial degree spectrum on a cone consisting of the  $c \leq d$  degrees

**The Democratic Dilemma of American Education** Arnold Shober,2018-04-19 This compelling new book asks How can American education policy be consistent with democratic ideals Robust democracy is the combination of participation self rule equality understanding and inclusion but these norms can produce contradictory policy Local control in education policy can undermine educational equality Participation in teachers unions can improve working conditions but thwart self rule by local taxpayers The Democratic Dilemma of American Education draws on contemporary research in political science and education policy to offer remarkably balanced insights into these challenging issues Expertly navigating through local state and federal layers of education policy Arnold Shober examines contemporary controversies over education governance teachers unions and collective bargaining school funding school choice academic accountability and desegregation Shober describes the inherent practical dilemmas of current policy and the difficulties policymakers face in overcoming them to produce lasting educational reform in a democratic federal system of government Timely engaging and accessible this is the ideal resource for courses in public policy as well as education and politics

**Railway Safety, Reliability, and Security: Technologies and Systems Engineering** Flammini, Francesco,2012-05-31 Human errors as well as deliberate sabotage pose a considerable danger to passengers riding on the modern railways and have created disastrous consequences To protect civilians against both intentional and unintentional threats rail transportation has become increasingly automated Railway Safety Reliability and Security Technologies and Systems Engineering provides engineering students and professionals with a collection of state of the art methodological and technological notions to support the development and certification of real time safety critical railway control systems as well as the protection of rail transportation infrastructures

*Hecke Operators and Systems of Eigenvalues on Siegel Cusp Forms* Kazuyuki Hatada,2021-06-18 View the abstract

**National Education Technology Plan** Arthur P. Hershaft,2011 Education is the key to America s economic growth and prosperity and to our ability to compete in the global economy It is the path to higher earning power for Americans and is necessary for our democracy to work It fosters the cross border cross cultural collaboration required to solve the most challenging problems of our time The National Education Technology Plan 2010 calls for revolutionary transformation Specifically we must embrace innovation and technology which is at the core of virtually every aspect of our daily lives and work This book explores the National Education Technology Plan which presents a model of learning powered by technology with goals and recommendations in five essential areas learning assessment teaching infrastructure and productivity

**Advances in Information Technology** Borworn Papasratorn, Kittichai Lavangnananda, Wichian Chutimaskul, Vajirasak Vanijja, 2010-10-19 It was our intention to organize IAIT 2010 as the place where researchers and industrial practitioners could share their work and achievements in information technology both theoretical and in application This is the fourth time we have organized IAIT to serve as a venue to foster collaboration among industry and academia from different parts of the world A lot has been achieved since the launch of the first IAIT in 2005 however many challenges remain to be addressed in the years to come IAIT 2010 drew attendance from leading professionals in both industry and academes as in IAIT 2009 In addition to the relevant program offered by IAIT 2010 the conference provided an excellent environment to meet peers in the IT profession build relationships and exchange lessons learned During the conference participants presented and discussed the latest topics in information technology ranging from technical knowledge and experimentation to future strategic directions As the Internet continues to reach out even further almost everything in our daily life is accessible via IP addresses our societies need to recognize that we need new knowledge to make this advancement become a benefit to all life in this world It is almost impossible to gain this new knowledge without contributions from our colleagues working in various aspects of information technology Some times new knowledge found in one area can help simplify difficult task in another Together we can make our world better by creating applications from information technology

**A Homology Theory for Smale Spaces** Ian F. Putnam, 2014-09-29 The author develops a homology theory for Smale spaces which include the basics sets for an Axiom A diffeomorphism It is based on two ingredients The first is an improved version of Bowen's result that every such system is the image of a shift of finite type under a finite to one factor map The second is Krieger's dimension group invariant for shifts of finite type He proves a Lefschetz formula which relates the number of periodic points of the system for a given period to trace data from the action of the dynamics on the homology groups The existence of such a theory was proposed by Bowen in the 1970s

*The Emperor of All Maladies* Siddhartha Mukherjee, 2011-08-09 Winner of the Pulitzer Prize and a documentary from Ken Burns on PBS this New York Times bestseller is an extraordinary achievement The New Yorker a magnificent profoundly humane biography of cancer from its first documented appearances thousands of years ago through the epic battles in the twentieth century to cure control and conquer it to a radical new understanding of its essence Physician researcher and award winning science writer Siddhartha Mukherjee examines cancer with a cellular biologist's precision a historian's perspective and a biographer's passion The result is an astonishingly lucid and eloquent chronicle of a disease humans have lived with and perished from for more than five thousand years The story of cancer is a story of human ingenuity resilience and perseverance but also of hubris paternalism and misperception Mukherjee recounts centuries of discoveries setbacks victories and deaths told through the eyes of his predecessors and peers training their wits against an infinitely resourceful adversary that just three decades ago was thought to be easily vanquished in an all out war against cancer The book reads like a literary thriller with cancer as the protagonist Riveting urgent and surprising *The Emperor of All Maladies* provides a fascinating glimpse into the future of cancer treatments It is an illuminating book that provides hope and clarity to those seeking to demystify cancer

*How Learning Works* Susan A. Ambrose, Michael W. Bridges, Michele DiPietro, Marsha C. Lovett, Marie K. Norman, 2010-04-16 Praise for *How Learning Works* *How Learning Works* is the perfect title for this excellent book Drawing upon new research in psychology education and cognitive science the authors have demystified a complex topic into clear explanations of seven powerful learning principles Full of great ideas and practical suggestions all based on solid research evidence this book is essential reading for instructors at all levels who wish to improve their students learning Barbara Gross Davis assistant vice chancellor for educational development University of California Berkeley and author *Tools for Teaching* This book is a must read for every instructor new or experienced Although I have been teaching for almost thirty years as I read this book I found myself resonating with many of its ideas and I discovered new ways of thinking about teaching Eugenia T Paulus professor of chemistry North Hennepin Community College and 2008 U S Community Colleges Professor of the Year from The Carnegie Foundation for the Advancement of Teaching and the Council for Advancement and Support of Education Thank you Carnegie Mellon for making accessible what has previously been inaccessible to those of us who are not learning scientists Your focus on the essence of learning combined with concrete examples of the daily challenges of teaching and clear tactical strategies for faculty to consider is a welcome work I will recommend this book to all my colleagues Catherine M Casserly senior partner The Carnegie Foundation for the Advancement of Teaching As you read about each of the seven basic learning principles in this book you will find advice that is grounded in learning theory based on research evidence relevant to college teaching and easy to understand The authors have extensive knowledge and experience in applying the science of learning to college teaching and they graciously share it with you in this organized and readable book From the Foreword by Richard E Mayer professor of psychology University of California Santa Barbara coauthor *e Learning and the Science of Instruction* and author *Multimedia Learning*

**One-Dimensional Empirical Measures, Order Statistics, and Kantorovich Transport Distances** Sergey Bobkov, Michel Ledoux, 2019-12-02 This work is devoted to the study of rates of convergence of the empirical measures  $\mu_n$  on  $\mathbb{R}^k$  towards the common distribution  $\mu$  in terms of moments and analytic conditions on the measure and its distribution function The study describes a variety of rates from the standard one to slower rates and both lower and upper bounds on  $E W_p(\mu_n, \mu)$  for fixed  $n$  in various instances Order statistics reduction to uniform samples and analysis of beta distributions inverse distribution functions log concavity are main tools in the investigation Two detailed appendices collect classical and some new facts on inverse distribution functions and beta distributions and their densities necessary to the investigation

**Weakly Modular Graphs and Nonpositive Curvature** Jérémie Chalopin, Victor Chepoi, Hiroshi Hirai, Damian Osajda, 2021-06-18 This article investigates structural geometrical and topological characterizations and properties of weakly modular graphs and of cell complexes derived from them. The unifying themes of our investigation are various nonpositive curvature and local to global properties and characterizations of weakly modular graphs and their subclasses. Weakly modular graphs have been introduced as a far reaching common generalization of median graphs and more generally of modular and orientable modular graphs. Helly graphs, bridged graphs and dual polar graphs occurring under different disguises: 1-skeletons, collinearity graphs, covering graphs, domains, etc. in several seemingly unrelated fields of mathematics: Metric graph theory, Geometric group theory, Incidence geometries and buildings, Theoretical computer science and combinatorial optimization. We give a local to global characterization of weakly modular graphs and their subclasses in terms of simple connectedness of associated triangle-square complexes and specific local combinatorial conditions. In particular, we revisit characterizations of dual polar graphs by Cameron and by Brouwer-Cohen. We also show that disk Helly graphs are precisely the clique Helly graphs with simply connected clique complexes. With  $L_1$ -embeddable weakly modular and weakly modular graphs, we associate high-dimensional cell complexes having several strong topological and geometrical properties: contractibility and the CAT(0) property. Their cells have a specific structure: they are basis polyhedra of even matroids in the first case and orthoscheme complexes of gated dual polar subgraphs in the second case. We resolve some open problems concerning subclasses of weakly modular graphs: we prove a Brady-McCammond conjecture about CAT(0) metric on the orthoscheme.

**Military Cost-Benefit Analysis** Francois Melese, Anke Richter, Binyam Solomon, 2015-03-27 This is the first comprehensive book on Military Cost-Benefit Analysis and provides novel approaches to structuring cost-benefit and affordability analysis amidst an uncertain defense environment and cloudy fiscal prospects. Lifting the veil on military Cost-Benefit Analysis, this volume offers several new practical tools designed to guide defense investments and divestments combined with a selection of real-world applications. The widespread employment of Cost-Benefit Analysis offers a unique opportunity to transform legacy defense forces into efficient, effective, and accountable 21st-century organizations. A synthesis of economics, statistics, and decision theory, CBA is currently used in a wide range of defense applications in countries around the world: i) to shape national security strategy; ii) to set acquisition policy; and iii) to inform critical investments in people, equipment, infrastructure, services, and supplies. As sovereign debt challenges squeeze national budgets and emerging threats disrupt traditional notions of security, this volume offers valuable tools to navigate the political landscape, meet calls for fiscal accountability, and boost the effectiveness of defense investments to help guarantee future peace and stability. A valuable resource for scholars, practitioners, novices, and experts, this book offers a comprehensive overview of Military Cost-Benefit Analysis and will appeal to anyone interested or involved in improving national security and will also be of general interest to those responsible for major government programs, projects, or policies.

**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.

*The Irreducible Subgroups of Exceptional Algebraic Groups* Adam R. Thomas, 2021-06-18 This paper is a contribution to the study of the subgroup structure of exceptional algebraic groups over algebraically closed fields of arbitrary characteristic Following Serre a closed subgroup of a semisimple algebraic group  $G$  is called irreducible if it lies in no proper parabolic subgroup of  $G$  In this paper we complete the classification of irreducible connected subgroups of exceptional algebraic groups providing an explicit set of representatives for the conjugacy classes of such subgroups Many consequences of this classification are also given These include results concerning the representations of such subgroups on various  $G$  modules for example the conjugacy classes of irreducible connected subgroups are determined by their composition factors on the adjoint module of  $G$  with one exception A result of Liebeck and Testerman shows that each irreducible connected subgroup  $X$  of  $G$  has only finitely many overgroups and hence the overgroups of  $X$  form a lattice We provide tables that give representatives of each conjugacy class of connected overgroups within this lattice structure We use this to prove results concerning the subgroup structure of  $G$  for example when the characteristic is 2 there exists a maximal connected subgroup of  $G$  containing a conjugate of every irreducible subgroup  $A_1$  of  $G$

Sums of Reciprocals of Fractional Parts and Multiplicative Diophantine Approximation Victor Beresnevich, Alan Haynes, Sanju Velani, 2020-04-03

**Algebraic Geometry over  $C^\infty$ -Rings** Dominic Joyce, 2019-09-05 If  $X$  is a manifold then the  $\mathbb{R}$  algebra  $C(X)$  of smooth functions  $c \in C(X)$  is a  $C$  ring That is for each smooth function  $f \in \mathbb{R}^n$  there is an  $n$  fold operation  $f \in C(X) \rightarrow C(X)$  acting by  $f \circ c = (f_1, \dots, f_n) \circ c = (f_1(c), \dots, f_n(c))$  and these operations  $f$  satisfy many natural identities Thus  $C(X)$  actually has a far richer structure than the obvious  $\mathbb{R}$  algebra structure The author explains the foundations of a version of algebraic geometry in which rings or algebras are replaced by  $C$  rings As schemes are the basic objects in algebraic geometry the new basic objects are  $C$  schemes a category of geometric objects which generalize manifolds and whose morphisms generalize smooth maps The author also studies quasicohherent sheaves on  $C$  schemes and  $C$  stacks in particular Deligne Mumford  $C$  stacks a 2 category of geometric objects generalizing orbifolds Many of these ideas are not new  $C$  rings and  $C$  schemes have long been part of synthetic differential geometry But the author develops them in new directions In earlier publications the author used these tools to define  $d$  manifolds and  $d$  orbifolds derived versions of manifolds and orbifolds related to Spivak's derived manifolds



## The Enigmatic Realm of **Memorandum For November 2010 Mathematics Paper 2**: Unleashing the Language is Inner Magic

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