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MATHEMATICS P1
SEPTEMBER 2014
MEMORANDUM

MARKS: 150

This memorandum consists of 16 pages.

Mathematics Pmemo 2014 September

Isabel Averill,King-Yeung Lam,Yuan Lou

Mathematics Pmemo 2014 September:

Poincare-Einstein Holography for Forms via Conformal Geometry in the Bulk A. Rod Gover,Emanuele Latini,Andrew Waldron,2015-04-09 The authors study higher form Proca equations on Einstein manifolds with boundary data along conformal infinity They solve these Laplace type boundary problems formally and to all orders by constructing an operator which projects arbitrary forms to solutions They also develop a product formula for solving these asymptotic problems in general The central tools of their approach are i the conformal geometry of differential forms and the associated exterior tractor calculus and ii a generalised notion of scale which encodes the connection between the underlying geometry and its boundary The latter also controls the breaking of conformal invariance in a very strict way by coupling conformally invariant equations to the scale tractor associated with the generalised scale **Algebraic Geometry: Salt Lake City 2015** Richard Thomas,2018-06-01 This is Part 2 of a two volume set Since Oscar Zariski organized a meeting in 1954 there has been a major algebraic geometry meeting every decade Woods Hole 1964 Arcata 1974 Bowdoin 1985 Santa Cruz 1995 and Seattle 2005 The American Mathematical Society has supported these summer institutes for over 50 years Their proceedings volumes have been extremely influential summarizing the state of algebraic geometry at the time and pointing to future developments The most recent Summer Institute in Algebraic Geometry was held July 2015 at the University of Utah in Salt Lake City sponsored by the AMS with the collaboration of the Clay Mathematics Institute This volume includes surveys growing out of plenary lectures and seminar talks during the meeting Some present a broad overview of their topics while others develop a distinctive perspective on an emerging topic Topics span both complex algebraic geometry and arithmetic questions specifically analytic techniques enumerative geometry moduli theory derived categories birational geometry tropical geometry Diophantine questions geometric representation theory characteristic and adic tools etc The resulting articles will be important references in these areas for years to come **Italy and Australia** Gabriele Abbondanza,Simone Battiston,2023-12-30 This book offers a novel and comprehensive reappraisal of current relations between Italy and Australia For the first time it expands the scope of analysis by encompassing and critically reviewing research avenues that have been understudied so far In order to pursue this objective it provides innovative analyses on bilateral history reciprocal migration socio cultural ties international relations and trade comparative politics and scientific cooperation By adopting a multidisciplinary approach this book makes a significant contribution to multiple disciplinary literatures benefitting social science scholars policymakers and professionals working in a number of fields Mindful of the wide scope and multidisciplinary nature of this innovative research the editors oversee a careful balance of different theories methodologies sources and data in accordance with the conventions of each discipline employed in this volume As a result this book encourages a broader and more nuanced understanding of Italian Australian relations in the 21st century **How the Brain Learns** David A. Sousa,2022-01-14 This book shows educators how to deliver game changing and brain changing

results for students In this edition the author translates new insights and evolving research into concrete actions and strategies for the classroom   **The Leader's Guide to Working with Underperforming Teachers** Sally J Zepeda,2016-03-10 Under increasing pressure in the face of teacher evaluation systems and accountability measures schools must focus on those teachers that exhibit marginal to incompetent teaching behaviors in their classrooms This book is a vital resource for educational leaders who are responsible for instructional programs and teacher evaluation Zepeda s tried and true strategies will help you take the necessary steps to support and mentor struggling teachers by detecting underperformance developing strategies to help teachers engaging in difficult conversations to enact plans of improvement and following legal requirements The practical tools found in this book will help teachers improve their instruction assessment classroom management and teamwork   **Sustainable Green Chemistry** Mark Anthony Benvenuto,2017-04-10 Sustainable Green Chemistry the 1st volume of Green Chemical Processing covers several key aspects of modern green processing The scope of this volume goes beyond bio and organic chemistry highlighting the ecological and economic benefits of enhanced sustainability in such diverse fields as petrochemistry metal production and wastewater treatment The authors discuss recent progresses and challenges in the implementation of green chemical processes as well as their transfer from academia to industry and teaching at all levels Selected successes in the greening of established processes and reactions are presented including the use of switchable polarity solvents actinide recovery using ionic liquids and the removal of the ubiquitous bisphenol A molecule from effluent streams by phytodegradation   **The Role of Advection in a Two-Species Competition Model: A Bifurcation Approach** Isabel Averill,King-Yeung Lam,Yuan Lou,2017-01-18 The effects of weak and strong advection on the dynamics of reaction diffusion models have long been studied In contrast the role of intermediate advection remains poorly understood For example concentration phenomena can occur when advection is strong providing a mechanism for the coexistence of multiple populations in contrast with the situation of weak advection where coexistence may not be possible The transition of the dynamics from weak to strong advection is generally difficult to determine In this work the authors consider a mathematical model of two competing populations in a spatially varying but temporally constant environment where both species have the same population dynamics but different dispersal strategies one species adopts random dispersal while the dispersal strategy for the other species is a combination of random dispersal and advection upward along the resource gradient For any given diffusion rates the authors consider the bifurcation diagram of positive steady states by using the advection rate as the bifurcation parameter This approach enables the authors to capture the change of dynamics from weak advection to strong advection The authors determine three different types of bifurcation diagrams depending on the difference of diffusion rates Some exact multiplicity results about bifurcation points are also presented The authors results can unify some previous work and as a case study about the role of advection also contribute to the understanding of intermediate relative to diffusion advection in reaction diffusion models   *Knots, Links,*

Spatial Graphs, and Algebraic Invariants Erica Flapan,Allison Henrich,Aaron Kaestner,Sam Nelson:,2017-05-19 This volume contains the proceedings of the AMS Special Session on Algebraic and Combinatorial Structures in Knot Theory and the AMS Special Session on Spatial Graphs both held from October 24 25 2015 at California State University Fullerton CA Included in this volume are articles that draw on techniques from geometry and algebra to address topological problems about knot theory and spatial graph theory and their combinatorial generalizations to equivalence classes of diagrams that are preserved under a set of Reidemeister type moves The interconnections of these areas and their connections within the broader field of topology are illustrated by articles about knots and links in spatial graphs and symmetries of spatial graphs in and other 3 manifolds   The Mathematics of Secrets Joshua Holden,2018-10-02 Explaining the mathematics of cryptography The Mathematics of Secrets takes readers on a fascinating tour of the mathematics behind cryptography the science of sending secret messages Using a wide range of historical anecdotes and real world examples Joshua Holden shows how mathematical principles underpin the ways that different codes and ciphers work He focuses on both code making and code breaking and discusses most of the ancient and modern ciphers that are currently known He begins by looking at substitution ciphers and then discusses how to introduce flexibility and additional notation Holden goes on to explore polyalphabetic substitution ciphers transposition ciphers connections between ciphers and computer encryption stream ciphers public key ciphers and ciphers involving exponentiation He concludes by looking at the future of ciphers and where cryptography might be headed The Mathematics of Secrets reveals the mathematics working stealthily in the science of coded messages A blog describing new developments and historical discoveries in cryptography related to the material in this book is accessible at http press princeton edu titles 10826 html   The Schenley Experiment Jake Oresick,2017-04-14 The Schenley Experiment is the story of Pittsburgh s first public high school a social incubator in a largely segregated city that was highly even improbably successful throughout its 156 year existence Established in 1855 as Central High School and reorganized in 1916 Schenley High School was a model of innovative public education and an ongoing experiment in diversity Its graduates include Andy Warhol actor Bill Nunn and jazz virtuoso Earl Hines and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather The subject of investment as well as destructive neglect the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt Integrated decades before Brown v Board of Education Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped out in six day long lines to enroll their children in visionary superintendent Richard C Wallace s reinvigorated school Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh officials closed the school in 2008 citing over 50 million in necessary renovations a controversial event that captured national attention Schenley alumnus Jake Oresick tells this story through interviews

historical documents and hundreds of first person accounts drawn from a community indelibly tied to the school A memorable important work of local and educational history his book is a case study of desegregation magnet education and the changing nature and legacies of America s oldest public schools   **Weapons of Math Destruction** Cathy O'Neil,2016 A former Wall Street quantitative analyst sounds an alarm on mathematical modeling a pervasive new force in society that threatens to undermine democracy and widen inequality NoveList   *Abelian Properties of Anick Spaces* Brayton Gray,2017-02-20 Anick spaces are closely connected with both EHP sequences and the study of torsion exponents In addition they refine the secondary suspension and enter unstable periodicity This work describes their space properties as well as universal properties Techniques include a new kind on Whitehead product defined for maps out of co H spaces calculations in an additive category that lies between the unstable category and the stable category and a controlled version of the extension theorem of Gray and Theriault Geom Topol 14 2010 no 1 243 275   **Global Tax Fairness** Thomas Pogge,Krishen Mehta,2016-02-04 This book addresses sixteen different reform proposals that are urgently needed to correct the fault lines in the international tax system as it exists today and which deprive both developing and developed countries of critical tax resources It offers clear and concrete ideas on how the reforms can be achieved and why they are important for a more just and equitable global system to prevail The key to reducing the tax gap and consequent human rights deficit in poor countries is global financial transparency Such transparency is essential to curbing illicit financial flows that drain less developed countries of capital and tax revenues and are an impediment to sustainable development A major break through for financial transparency is now within reach The policy reforms outlined in this book not only advance tax justice but also protect human rights by curtailing illegal activity and making available more resources for development While the reforms are realistic they require both political and an informed and engaged civil society that can put pressure on governments and policy makers to act   **Rhetoric in Neoliberalism** Kim Hong Nguyen,2016-11-04 This volume examines and applies classical and contemporary concepts of rhetorical theory and criticism to the context of late capitalism Each contributor shows how discourse its subjects and power relations are irrevocably transformed by neoliberalism The collection analyzes a range of discourses and phenomena in neoliberalism including higher education reforms computational culture Occupy Wall Street protests the activism of Warren Buffett and the 9 11 Truth Movement Together these chapters explore the contemporary rhetorical production of homo economicus and the various ways in which neoliberalism has become a way of thinking orienting and organizing all aspects of life around economized metrics of individualized and individuated success This book will be of use to students and scholars crossing the fields of media and communication political science and sociology   **Global Regularity for 2D Water Waves with Surface Tension** Alexandru D. Ionescu,Fabio Pusateri,2019-01-08 The authors consider the full irrotational water waves system with surface tension and no gravity in dimension two the capillary waves system and prove global regularity and modified scattering for suitably small and localized perturbations of a flat

interface An important point of the authors analysis is to develop a sufficiently robust method the quasilinear I method which allows the authors to deal with strong singularities arising from time resonances in the applications of the normal form method the so called division problem As a result they are able to consider a suitable class of perturbations with finite energy but no other momentum conditions Part of the authors analysis relies on a new treatment of the Dirichlet Neumann operator in dimension two which is of independent interest As a consequence the results in this paper are self contained   *Weakly Modular Graphs and Nonpositive Curvature* Jérémie Chalopin,Victor Chepoi,Hiroshi Hirai,Damian Osajda,2021-06-18 This article investigates structural geometrical and topological characteri zations and properties of weakly modular graphs and of cell complexes derived from them The unifying themes of our investigation are various nonpositive cur vature 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 mod ular and orientable modular graphs Helly graphs bridged graphs and dual polar graphs occurring under di erent disguises 1 skeletons collinearity graphs covering graphs domains etc in several seemingly unrelated elds 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 sub classes in terms of simple connectedness of associated triangle square complexes and speci c 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 l1 embeddable weakly modular and sweakly 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 speci c structure they are basis polyhedra of even matroids in the rst 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

Monoidal Categories and the Gerstenhaber Bracket in Hochschild Cohomology Reiner Hermann:,2016-09-06 In this monograph the author extends S Schwede s exact sequence interpretation of the Gerstenhaber bracket in Hochschild cohomology to certain exact and monoidal categories Therefore the author establishes an explicit description of an isomorphism by A Neeman and V Retakh which links Ext groups with fundamental groups of categories of extensions and relies on expressing the fundamental group of a small category by means of the associated Quillen groupoid As a main result the author shows that his construction behaves well with respect to structure preserving functors between exact monoidal categories The author uses his main result to conclude that the graded Lie bracket in Hochschild cohomology is an invariant under Morita equivalence For quasi triangular bialgebras he further determines a significant part of the Lie bracket s kernel and thereby proves a conjecture by L Menichi Along the way the author introduces n extension closed and entirely extension

closed subcategories of abelian categories and studies some of their properties **Projective Measure Without Projective Baire** Sy David Friedman,David Schrittesser,2021-02-10 The authors prove that it is consistent relative to a Mahlo cardinal that all projective sets of reals are Lebesgue measurable but there is a Delta 1_3 set without the Baire property The complexity of the set which provides a counterexample to the Baire property is optimal **The Maslov Index in Symplectic Banach Spaces** Bernhelm Booß-Bavnbek,Chaofeng Zhu,2018-03-19 The authors consider a curve of Fredholm pairs of Lagrangian subspaces in a fixed Banach space with continuously varying weak symplectic structures Assuming vanishing index they obtain intrinsically a continuously varying splitting of the total Banach space into pairs of symplectic subspaces Using such decompositions the authors define the Maslov index of the curve by symplectic reduction to the classical finite dimensional case The authors prove the transitivity of repeated symplectic reductions and obtain the invariance of the Maslov index under symplectic reduction while recovering all the standard properties of the Maslov index As an application the authors consider curves of elliptic operators which have varying principal symbol varying maximal domain and are not necessarily of Dirac type For this class of operator curves the authors derive a desuspension spectral flow formula for varying well posed boundary conditions on manifolds with boundary and obtain the splitting formula of the spectral flow on partitioned manifolds **Advances and Applications of DSmT for Information Fusion. Collected Works, Volume 5** Florentin Smarandache,Jean Dezert ,Albena Tchamova, This fth volume on Advances and Applications of DSmT for Information Fusion collects theoretical and applied contributions of researchers working in different elds of applications and in mathematics and is available in open access The collected contributions of this volume have either been published or presented after disseminating the fourth volume in 2015 available at fs unm edu DSmT book4 pdf or www onera fr sites default les 297 2015 DSmT Book4 pdf in international conferences seminars workshops and journals or they are new The contributions of each part of this volume are chronologically ordered First Part of this book presents some theoretical advances on DSmT dealing mainly with modi ed Proportional Con ict Redistribution Rules PCR of combination with degree of intersection coarsening techniques interval calculus for PCR thanks to set inversion via interval analysis SIVIA rough set classi ers canonical decomposition of dichotomous belief functions fast PCR fusion fast inter criteria analysis with PCR and improved PCR5 and PCR6 rules preserving the quasi neutrality of quasi vacuous belief assignment in the fusion of sources of evidence with their Matlab codes Because more applications of DSmT have emerged in the past years since the apparition of the fourth book of DSmT in 2015 the second part of this volume is about selected applications of DSmT mainly in building change detection object recognition quality of data association in tracking perception in robotics risk assessment for torrent protection and multi criteria decision making multi modal image fusion coarsening techniques recommender system levee characterization and assessment human heading perception trust assessment robotics biometrics failure detection GPS systems inter criteria analysis group decision human activity recognition storm prediction data association for autonomous

vehicles identi cation of maritime vessels fusion of support vector machines SVM Silx Furtif RUST code library for information fusion including PCR rules and network for ship classi cation Finally the third part presents interesting contributions related to belief functions in general published or presented along the years since 2015 These contributions are related with decision making under uncertainty belief approximations probability transformations new distances between belief functions non classical multi criteria decision making problems with belief functions generalization of Bayes theorem image processing data association entropy and cross entropy measures fuzzy evidence numbers negator of belief mass human activity recognition information fusion for breast cancer therapy imbalanced data classi cation and hybrid techniques mixing deep learning with belief functions as well

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