

Mathematics

March

EXAM PAPERS

Memo For Mathematics Paper March 2015

Olivier Frécon



Memo For Mathematics Paper March 2015:

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 a 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 (G, H, W) where H is a disconnected maximal positive dimensional closed subgroup of G preserving a natural geometric structure on V . **On Non-Topological Solutions of the A_2 and B_2 Chern-Simons System** Weiwei Ao,Chang-Shou Lin,Juncheng Wei,2016-01-25 Click here to view the abstract IntroductionProof of Theorem 1.1 in the caseProof of Theorem 1.1 in the caseAppendixBibliography **Drawing Futures** Bob Sheil,Frédéric Migayrou,Luke Pearson,Laura Allen,2016-11-11 Drawing Futures brings together international designers and artists for speculations in contemporary drawing for art and architecture. Despite numerous developments in technological manufacture and computational design that provide new grounds for designers the act of drawing still plays a central role as a vehicle for speculation. There is a rich and long history of drawing tied to innovations in technology as well as to revolutions in our philosophical understanding of the world. In reflection of a society now underpinned by computational networks and interfaces allowing hitherto unprecedented views of the world the changing status of the drawing and its representation as a political act demands a platform for reflection and innovation. Drawing Futures will present a compendium of projects writings and interviews that critically reassess the act of drawing and where its future may lie. Drawing Futures focuses on the discussion of how the field of drawing may expand synchronously alongside technological and computational developments. The book coincides with an international conference of the same name taking place at The Bartlett School of Architecture UCL in November 2016. Bringing together practitioners from many creative fields the book discusses how drawing is changing in relation to new technologies for the production and dissemination of ideas. *On Non-Generic Finite Subgroups of Exceptional Algebraic Groups* Alastair J. Litterick,2018-05-29 The study of finite subgroups of a simple algebraic group G reduces in a sense to those which are almost simple. If an almost simple subgroup of G has a socle which is not isomorphic to a group of Lie type in the underlying characteristic of G then the subgroup is called non generic. This paper considers non generic subgroups of simple algebraic groups of exceptional type in arbitrary characteristic. **Applications of Operational Research and Mathematical Models in Management** Miltiadis Chalikias,2020-11-17 This book Applications of Operational Research and Mathematical Models in Management includes all the papers published in the Mathematics Special Issue with the same title. All the published papers are of high quality and were subjected to rigorous peer review. Mathematics is included in the Science Citation Index Web of Science and its current Impact Factor is 1.747. The papers in this book deal with on R D performance models methods for ranking the perspectives and indicators of a balance scorecard robust optimization model applications integrated production and distribution problem.

solving demand functions supply chain games probabilistic optimization and profit research coordinated techniques for order preference robustness approaches in bank capital optimization and hybrid methods for tourism demand forecasting All the papers included contribute to the development of research

Medial/Skeletal Linking Structures for Multi-Region Configurations James Damon, Ellen Gasparovic, 2018-01-16 The authors consider a generic configuration of regions consisting of a collection of distinct compact regions in which may be either regions with smooth boundaries disjoint from the others or regions which meet on their piecewise smooth boundaries in a generic way They introduce a skeletal linking structure for the collection of regions which simultaneously captures the regions individual shapes and geometric properties as well as the positional geometry of the collection The linking structure extends in a minimal way the individual skeletal structures on each of the regions This allows the authors to significantly extend the mathematical methods introduced for single regions to the configuration of regions

Diophantine Approximation and the Geometry of Limit Sets in Gromov Hyperbolic Metric Spaces Lior Fishman, David Simmons, Mariusz Urbański, 2018-08-09 In this paper the authors provide a complete theory of Diophantine approximation in the limit set of a group acting on a Gromov hyperbolic metric space This summarizes and completes a long line of results by many authors from Patterson's classic 1976 paper to more recent results of Hersensky and Paulin 2002 2004 2007 The authors consider concrete examples of situations which have not been considered before These include geometrically infinite Kleinian groups geometrically finite Kleinian groups where the approximating point is not a fixed point of any element of the group and groups acting on infinite dimensional hyperbolic space Moreover in addition to providing much greater generality than any prior work of which the authors are aware the results also give new insight into the nature of the connection between Diophantine approximation and the geometry of the limit set within which it takes place Two results are also contained here which are purely geometric a generalization of a theorem of Bishop and Jones 1997 to Gromov hyperbolic metric spaces and a proof that the uniformly radial limit set of a group acting on a proper geodesic Gromov hyperbolic metric space has zero Patterson Sullivan measure unless the group is quasiconvex cocompact The latter is an application of a Diophantine theorem

Continuous-Time Random Walks for the Numerical Solution of Stochastic Differential Equations Nawaf Bou-Rabee, Eric Vanden-Eijnden, 2019-01-08 This paper introduces time continuous numerical schemes to simulate stochastic differential equations SDEs arising in mathematical finance population dynamics chemical kinetics epidemiology biophysics and polymeric fluids These schemes are obtained by spatially discretizing the Kolmogorov equation associated with the SDE in such a way that the resulting semi discrete equation generates a Markov jump process that can be realized exactly using a Monte Carlo method In this construction the jump size of the approximation can be bounded uniformly in space which often guarantees that the schemes are numerically stable for both finite and long time simulation of SDEs

Induction, Bounding, Weak Combinatorial Principles, and the Homogeneous Model Theorem Denis R. Hirschfeldt, Karen Lange, Richard A. Shore, 2017-09-25 Goncharov and Peretyatkin independently gave necessary and

sufficient conditions for when a set of types of a complete theory is the type spectrum of some homogeneous model of Their result can be stated as a principle of second order arithmetic which is called the Homogeneous Model Theorem HMT and analyzed from the points of view of computability theory and reverse mathematics Previous computability theoretic results by Lange suggested a close connection between HMT and the Atomic Model Theorem AMT which states that every complete atomic theory has an atomic model The authors show that HMT and AMT are indeed equivalent in the sense of reverse mathematics as well as in a strong computability theoretic sense and do the same for an analogous result of Peretyatkin giving necessary and sufficient conditions for when a set of types is the type spectrum of some model Degree Spectra of Relations on a Cone Matthew Harrison-Trainer, 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} where R is computable in a large degree d He introduces the partial order of degree spectra on a cone and begins 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 $c \leq e$ degrees the author shows that there is a minimal non trivial degree spectrum on a cone consisting of the $c \leq e$ degrees

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 **Spectral Invariants with**

Bulk, Quasi-Morphisms and Lagrangian Floer Theory Kenji Fukaya, Yong-Geun Oh, Hiroshi Ohta, Kaoru Ono, 2019-09-05 In this paper the authors first develop various enhancements of the theory of spectral invariants of Hamiltonian Floer homology and of Entov Polterovich theory of spectral symplectic quasi states and quasi morphisms by incorporating bulk deformations i.e deformations by ambient cycles of symplectic manifolds of the Floer homology and quantum cohomology Essentially the same kind of construction is independently carried out by Usher in a slightly less general context Then the authors explore various applications of these enhancements to the symplectic topology especially new construction of symplectic quasi states quasi morphisms and new Lagrangian intersection results on toric and non toric manifolds The most novel part of this paper is its use of open closed Gromov Witten Floer theory and its variant involving closed orbits of periodic Hamiltonian system to connect spectral invariants with bulk deformation symplectic quasi states quasi morphism to the Lagrangian Floer theory with bulk deformation The authors use this open closed Gromov Witten Floer theory to produce new

examples Using the calculation of Lagrangian Floer cohomology with bulk they produce examples of compact symplectic manifolds which admits uncountably many independent quasi morphisms They also obtain a new intersection result for the Lagrangian submanifold in [Dynamics Near the Subcritical Transition of the 3D Couette Flow II: Above Threshold Case](#)

Jacob Bedrossian, Pierre Germain, Nader Masmoudi, 2022-08-31 View the abstract [Stable Stems](#) Daniel C.

Isaksen, 2020-02-13 The author presents a detailed analysis of 2 complete stable homotopy groups both in the classical context and in the motivic context over \mathbb{C} He uses the motivic May spectral sequence to compute the cohomology of the motivic Steenrod algebra over \mathbb{C} through the 70 stem He then uses the motivic Adams spectral sequence to obtain motivic stable homotopy groups through the 59 stem He also describes the complete calculation to the 65 stem but defers the proofs in this range to forthcoming publications In addition to finding all Adams differentials the author also resolves all hidden extensions by 2 and through the 59 stem except for a few carefully enumerated exceptions that remain unknown The analogous classical stable homotopy groups are easy consequences The author also computes the motivic stable homotopy groups of the cofiber of the motivic element This computation is essential for resolving hidden extensions in the Adams spectral sequence He shows that the homotopy groups of the cofiber of are the same as the E2 page of the classical Adams Novikov spectral sequence This allows him to compute the classical Adams Novikov spectral sequence including differentials and hidden extensions in a larger range than was previously known **Orthogonal and Symplectic n -level Densities**

A. M. Mason, N. C. Snaith, 2018-02-23 In this paper the authors apply to the zeros of families of functions with orthogonal or symplectic symmetry the method that Conrey and Snaith Correlations of eigenvalues and Riemann zeros 2008 used to calculate the correlation of the zeros of the Riemann zeta function This method uses the Ratios Conjectures Conrey Farmer and Zimbauer 2008 for averages of ratios of zeta or functions Katz and Sarnak Zeroes of zeta functions and symmetry 1999 conjecture that the zero statistics of families of functions have an underlying symmetry relating to one of the classical compact groups and Here the authors complete the work already done with Conrey and Snaith Correlations of eigenvalues and Riemann zeros 2008 to show how new methods for calculating the level densities of eigenangles of random orthogonal or symplectic matrices can be used to create explicit conjectures for the level densities of zeros of functions with orthogonal or symplectic symmetry including all the lower order terms They show how the method used here results in formulae that are easily modified when the test function used has a restricted range of support and this will facilitate comparison with rigorous number theoretic level density results **Sobolev, Besov and Triebel-Lizorkin Spaces on Quantum Tori** Xiao

Xiong, Quanhua Xu, Zhi Yin, 2018-03-19 This paper gives a systematic study of Sobolev Besov and Triebel Lizorkin spaces on a noncommutative torus with a skew symmetric real matrix These spaces share many properties with their classical counterparts The authors prove among other basic properties the lifting theorem for all these spaces and a Poincaré type inequality for Sobolev spaces **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 F of characteristic zero and a given connected affine algebraic Q group the main theorem describes all the affine algebraic Q groups such that the groups and are isomorphic as abstract groups In the same time it is shown that for any two connected algebraic Q 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

Facebook Steven Levy,2020 From renowned tech writer Steven Levy the definitive history of one of America's most powerful and controversial companies Facebook In his sophomore year of college Mark Zuckerberg created a simple website to serve as a campus social network The site caught on like wildfire and soon students nationwide were on Facebook Today Facebook is nearly unrecognizable from Zuckerberg's first modest iteration It has grown into a tech giant the largest social media platform and one of the most gargantuan companies in the world with a valuation of more than 576 billion and almost 3 billion users There is no denying the power and omnipresence of Facebook in American daily life And in light of recent controversies surrounding election influencing fake news accounts the handling of its users' personal data and growing discontent with the actions of its founder and CEO never has the company been more central to the national conversation Based on years of exclusive reporting and interviews with Facebook's key executives and employees including Mark Zuckerberg and Sheryl Sandberg Steven Levy's sweeping narrative digs deep into the whole story of the company that has changed the world and reaped the consequences

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

Elliptic PDEs on Compact Ricci Limit Spaces and Applications Shouhei Honda,2018-05-29 In this paper the author studies elliptic PDEs on compact Gromov-Hausdorff limit spaces of Riemannian manifolds with lower Ricci curvature bounds In particular the author establishes continuities of geometric quantities which include solutions of Poisson's equations eigenvalues of Schrödinger operators generalized Yamabe constants and eigenvalues of the Hodge Laplacian with respect to the Gromov-Hausdorff topology The author applies these to the study of second order differential calculus on such limit spaces

Memo For Mathematics Paper March 2015 Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Memo For Mathematics Paper March 2015**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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