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Pure Mathematics Paper November 2013 Memorandum

A. González-Enríquez, A. Haro,R. de la Llave

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<u>Curvature: A Variational Approach</u> 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   **Variations on a Theorem of Tate** Stefan Patrikis,2019-04-10 Let F be a number field These notes explore Galois theoretic automorphic and motivic analogues and refinements of Tate s basic result that continuous projective representations Gal F F PGLn C lift to GLn C The author takes special interest in the interaction of this result with algebraicity for automorphic representations and geometricity in the sense of Fontaine Mazur On the motivic side the author studies refinements and generalizations of the classical Kuga Satake construction Some auxiliary results touch on possible infinity types of algebraic automorphic representations comparison of the automorphic and Galois Tannakian formalisms monodromy independence of questions for abstract Galois representations   *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   *Direct and Inverse Scattering at Fixed Energy for Massless Charged Dirac Fields by Kerr-Newman-de Sitter Black Holes* Thierry Daudé,François Nicoleau,2017-04-25 In this paper the authors study the direct and inverse scattering theory at fixed energy for massless charged Dirac fields evolving in the exterior region of a Kerr Newman de Sitter black hole In the first part they establish the existence and asymptotic completeness of time dependent wave operators associated to our Dirac fields This leads to the definition of the time dependent scattering operator that encodes the far field behavior with respect to a stationary observer in the asymptotic regions of the black hole the event and cosmological horizons The authors also use the miraculous property quoting Chandrasekhar that the Dirac equation can be separated into radial and angular ordinary differential equations to

make the link between the time dependent scattering operator and its stationary counterpart This leads to a nice expression of the scattering matrix at fixed energy in terms of stationary solutions of the system of separated equations In a second part the authors use this expression of the scattering matrix to study the uniqueness property in the associated inverse scattering problem at fixed energy Using essentially the particular form of the angular equation that can be solved explicitly by Frobenius method and the Complex Angular Momentum technique on the radial equation the authors are finally able to determine uniquely the metric of the black hole from the knowledge of the scattering matrix at a fixed energy **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 Hypercontractivity in Group von Neumann Algebras Marius Junge,Carlos Palazuelos,Javier Parcet,Mathilde Perrin,2017-09-25 In this paper the authors provide a combinatorial numerical method to establish new hypercontractivity estimates in group von Neumann algebras They illustrate their method with free groups triangular groups and finite cyclic groups for which they obtain optimal time hypercontractive inequalities with respect to the Markov process given by the word length and with an even integer Interpolation and differentiation also yield general hypercontrativity for via logarithmic Sobolev inequalities The authors method admits further applications to other discrete groups without small loops as far as the numerical part which varies from one group to another is implemented and tested on a computer The authors also develop another combinatorial method which does not rely on computational estimates and provides non optimal hypercontractive inequalities for a larger class of groups lengths including any finitely generated group equipped with a conditionally negative word length like infinite Coxeter groups The authors second method also yields hypercontractivity

bounds for groups admitting a finite dimensional proper cocycle Hypercontractivity fails for conditionally negative lengths in groups satisfying Kazhdan s property T   Generalized Descriptive Set Theory and Classification Theory Sy-David Friedman,Tapani Hyttinen, Vadim Kulikov,2014-06-05 Descriptive set theory is mainly concerned with studying subsets of the space of all countable binary sequences In this paper the authors study the generalization where countable is replaced by uncountable They explore properties of generalized Baire and Cantor spaces equivalence relations and their Borel reducibility The study shows that the descriptive set theory looks very different in this generalized setting compared to the classical countable case They also draw the connection between the stability theoretic complexity of first order theories and the descriptive set theoretic complexity of their isomorphism relations The authors results suggest that Borel reducibility on uncountable structures is a model theoretically natural way to compare the complexity of isomorphism relations   **Knot Invariants and Higher Representation Theory** Ben Webster,2018-01-16 The author constructs knot invariants categorifying the quantum knot variants for all representations of quantum groups He shows that these invariants coincide with previous invariants defined by Khovanov for sl and sl and by Mazorchuk Stroppel and Sussan for sl The author s technique is to study 2 representations of 2 quantum groups in the sense of Rouquier and Khovanov Lauda categorifying tensor products of irreducible representations These are the representation categories of certain finite dimensional algebras with an explicit diagrammatic presentation generalizing the cyclotomic quotient of the KLR algebra When the Lie algebra under consideration is sl the author shows that these categories agree with certain subcategories of parabolic category for gl

   A Complete Classification of the Isolated Singularities for Nonlinear Elliptic Equations with Inverse Square Potentials Florica C. Cîrstea,2014-01-08 In particular for b 1 and 0 we find a sharp condition on h such that the origin is a removable singularity for all non negative solutions of eqref one thus addressing an open question of V zquez and V ron

   Arnold Sommerfeld Michael Eckert,2013-06-24 The subject of the book is a biography of the theoretical physicist Arnold Sommerfeld 1868 1951 Although Sommerfeld is famous as a quantum theorist for the elaboration of the semi classical atomic theory Bohr Sommerfeld model Sommerfeld s fine structure constant his role in the history of modern physics is not confined to atoms and quanta Sommerfeld left his mark in the history of mathematics fluid mechanics a number of physical subdisciplines and in particular as founder of a most productive school Peter Debye Wolfgang Pauli Werner Heisenberg Linus Pauling and Hans Bethe were his pupils to name only the Nobel laureates among them This biography is to a large extent based on primary source material correspondence diaries unpublished manuscripts It should be of particular interest to students who are keen to know more about the historical roots of modern science Sommerfeld lived through turbulent times of German history Wilhelmian Empire Weimar Republic Nazi period His life therefore illustrates how science and scientists perform in changing social environments From this perspective the biography should also attract readers with a general interest in the history of science and technology   *Large Deviations for Additive Functionals of Markov Chains* Alejandro D.

de Acosta,Peter Ney,2014-03-05   Relative Equilibria in the 3-Dimensional Curved n-Body Problem Florin Diacu,2014-03-05 Considers the 3 dimensional gravitational n body problem n32 in spaces of constant Gaussian curvature k10 i e on spheres S 3 1 for 0 and on hyperbolic manifolds H 3 1 for   *Singularity Theory for Non-Twist KAM Tori* A. González-Enríquez, A. Haro,R. de la Llave,2014-01-08 In this monograph the authors introduce a new method to study bifurcations of KAM tori with fixed Diophantine frequency in parameter dependent Hamiltonian systems It is based on Singularity Theory of critical points of a real valued function which the authors call the potential The potential is constructed in such a way that nondegenerate critical points of the potential correspond to twist invariant tori i e with nondegenerate torsion and degenerate critical points of the potential correspond to non twist invariant tori Hence bifurcating points correspond to non twist tori   **Spectra of Symmetrized Shuffling Operators** Victor Reiner,Franco Saliola,Volkmar Welker,2014-03-05 For a finite real reflection group W and a W orbit O of flats in its reflection arrangement or equivalently a conjugacy class of its parabolic subgroups the authors introduce a statistic noninv O w on w in W that counts the number of O noninversions of w This generalises the classical non inversion statistic for permutations w in the symmetric group S n The authors then study the operator O of right multiplication within the group algebra CW by the element that has noninv O w as its coefficient on w   **Operator-Valued Measures, Dilations, and the Theory of Frames** Deguang Han, David R. Larson,Bei Liu,Rui Liu,2014-04-07 The authors develop elements of a general dilation theory for operator valued measures Hilbert space operator valued measures are closely related to bounded linear maps on abelian von Neumann algebras and some of their results include new dilation results for bounded linear maps that are not necessarily completely bounded and from domain algebras that are not necessarily abelian In the non cb case the dilation space often needs to be a Banach space They give applications to both the discrete and the continuous frame theory There are natural associations between the theory of frames including continuous frames and framings the theory of operator valued measures on sigma algebras of sets and the theory of continuous linear maps between algebras In this connection frame theory itself is identified with the special case in which the domain algebra for the maps is an abelian von Neumann algebra and the map is normal i e ultraweakly or weakly or w continuous   **Formality of the Little 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 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 **PISA 2015 Assessment and Analytical Framework Science, Reading, Mathematic and Financial Literacy** OECD,2016-04-19 What is important for citizens to know and be able to do The OECD Programme for International Student Assessment PISA seeks to answer that question through the most comprehensive and rigorous international assessment of student knowledge and skills **Nonlinear Stability of Ekman Boundary Layers in Rotating Stratified Fluids** Hajime Koba,2014-03-05 A stationary solution of the rotating Navier Stokes equations with a boundary condition is called an Ekman boundary layer This book constructs stationary solutions of the rotating Navier Stokes Boussinesq equations with stratification effects in the case when the rotating axis is not necessarily perpendicular to the horizon The author calls such stationary solutions Ekman layers This book shows the existence of a weak solution to an Ekman perturbed system which satisfies the strong energy inequality Moreover the author discusses the uniqueness of weak solutions and computes the decay rate of weak solutions with respect to time under some assumptions on the Ekman layers and the physical parameters The author also shows that there exists a unique global in time strong solution of the perturbed system when the initial datum is sufficiently small Comparing a weak solution satisfying the strong energy inequality with the strong solution implies that the weak solution is smooth with respect to time when time is sufficiently large **Combinatorial Floer Homology** Vin de Silva,Joel W. Robbin,Dietmar A. Salamon,2014-06-05 The authors define combinatorial Floer homology of a transverse pair of noncontractible nonisotopic embedded loops in an oriented manifold without boundary prove that it is invariant under isotopy and prove that it is isomorphic to the original Lagrangian Floer homology Their proof uses a formula for the Viterbo Maslov index for a smooth lune in a manifold **Non-Semisimple Extended Topological Quantum Field Theories** Marco De Renzi,2022-05-24 View the abstract

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