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MEMORANDUM

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2014 Mathematics P1 Memorandum

Ron Blei



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Caught in the Act Cyril Julie, Lorna Holtman, Charles R. Smith, 2019-12-11 The research reported in *Caught in the Act* draws together the insights gained from a continuous professional development initiative for high school mathematics teachers teaching in low socio economic status and socially challenged environments in South Africa The chapters show the possibilities for enhancing achievement in school mathematics if a strength based approach is adopted to develop teaching with teachers and when their concerns are taken seriously The book demonstrates that the ecological relevance fitness for the context in which teachers are teaching of the goods developed and distributed by initiatives should be a major consideration to offer hope for sustainable implementation to improve school mathematics education The book is of interest to mathematics teachers school leaders mathematics curriculum advisors policy makers and researchers

A Power Law of Order $1/4$ for Critical Mean Field Swendsen-Wang Dynamics Yun Long, Asaf Nachmias, Weiyang Ning, Yuval Peres, 2014-09-29 Introduction Statement of the results Mixing time preliminaries Outline of the proof of Theorem 2 1 Random graph estimates Supercritical case Subcritical case Critical Case Fast mixing of the Swendsen Wang process on trees Acknowledgements Bibliography

Transfer of Siegel Cusp Forms of Degree 2 Ameya Pitale, Abhishek Saha, Ralf Schmidt, 2014-09-29 Let π be the automorphic representation of GL_2 generated by a full level cuspidal Siegel eigenform that is not a Saito Kurokawa lift and be an arbitrary cuspidal automorphic representation of GL_2 Using Furusawa's integral representation for π combined with a pullback formula involving the unitary group the authors prove that the functions are nice The converse theorem of Cogdell and Piatetski Shapiro then implies that such representations have a functorial lifting to a cuspidal representation of GL_2 Combined with the exterior square lifting of Kim this also leads to a functorial lifting of π to a cuspidal representation of GL_2 As an application the authors obtain analytic properties of various functions related to full level Siegel cusp forms They also obtain special value results for L and ζ

A Complete Classification of the Isolated Singularities for Nonlinear Elliptic Equations with Inverse Square Potentials Florica C. Cîrstea, 2014-01-08 In particular for $b \geq 1$ and 0 we find a sharp condition on h such that the origin is a removable singularity for all non negative solutions of $\Delta u = h|u|^{p-2}u$ thus addressing an open question of Vazquez and Vron

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

Topic-wise CTET Paper 1 Previous Year Solved Papers (2024 - 2011) Class 1 - 5 Teachers | Child Development & Pedagogy, English, Hindi, EVS & Mathematics Disha Experts, 2024-10-22 The First edition of the book 22 TOPIC WISE CTET Paper 1 Solved Papers 2024 2011 English Edition contains detailed Solutions to the Past 22 Solved Papers of the CTET exam from 2011 to 2024 The past 22 CTET Solved papers included are June 2011 Jan Section II mathematics has 15 Topics Section III EVS has 13 Topics Section IV English 11 Topics Section V Hindi has 10 Topics The detailed solutions are provided immediately after each topic Solutions are provided for each question The languages covered in the tests are English 1st language and Hindi 2nd language The book is 100% useful for UPTET HTET MPTET CGTET UKTET HPTET BTET PTET and other STET Exam

The Optimal Version of Hua's Fundamental Theorem of Geometry of Rectangular Matrices

Peter Šemrl, 2014-09-29 Hua's fundamental theorem of geometry of matrices describes the general form of bijective maps on the space of all m times n matrices over a division ring $\mathbb{D}$ which preserve adjacency in both directions Motivated by several applications the author studies a long standing open problem of possible improvements There are three natural questions Can we replace the assumption of preserving adjacency in both directions by the weaker assumption of preserving adjacency in one direction only and still get the same conclusion Can we relax the bijectivity assumption Can we obtain an analogous result for maps acting between the spaces of rectangular matrices of different sizes A division ring is said to be EAS if it is not isomorphic to any proper subring For matrices over EAS division rings the author solves all three problems simultaneously thus obtaining the optimal version of Hua's theorem In the case of general division rings he gets such an optimal result only for square matrices and gives examples showing that it cannot be extended to the non square case

Index Theory for Locally Compact Noncommutative Geometries A. L. Carey, V. Gayral, A. Rennie, F. A.

Sukochev, 2014-08-12 Spectral triples for nonunital algebras model locally compact spaces in noncommutative geometry In the present text the authors prove the local index formula for spectral triples over nonunital algebras without the assumption of local units in our algebra This formula has been successfully used to calculate index pairings in numerous noncommutative examples The absence of any other effective method of investigating index problems in geometries that are genuinely noncommutative particularly in the nonunital situation was a primary motivation for this study and the authors illustrate this point with two examples in the text In order to understand what is new in their approach in the commutative setting the authors prove an analogue of the Gromov Lawson relative index formula for Dirac type operators for even dimensional manifolds with bounded geometry without invoking compact supports For odd dimensional manifolds their index formula appears to be completely new

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

The Grothendieck Inequality Revisited Ron Blei, 2014-09-29 The classical Grothendieck inequality is viewed as a statement about representations of functions of two variables over discrete domains by integrals of two fold products of functions of one variable An analogous statement is proved concerning continuous functions of two variables over general topological domains The main result is the construction of a continuous map Φ from l^2_A into $L^2(\Omega_A, \mathbb{P}_A)$ where A is a set $\Omega_A \subset \mathbb{R}^n$ and $\mathbb{P}_A$ is the uniform probability measure on Ω_A

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