



GAUTENG PROVINCE

EDUCATION

**PREPARATORY EXAMINATION
2015
MEMORANDUM**

SUBJECT:

MATHEMATICS P1 (100%)

Mathematics P1 Memo 2015

Mike Jess



Mathematics P1 Memo 2015:

Multiple Hilbert Transforms Associated with Polynomials Joonil Kim, 2015-08-21 Nothing provided 22
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

Hyperbolic Groupoids and Duality Volodymyr Nekrashevych, 2015-08-21 The author introduces a notion of hyperbolic groupoids generalizing the notion of a Gromov hyperbolic group Examples of hyperbolic groupoids include actions of Gromov hyperbolic groups on their boundaries pseudogroups generated by expanding self coverings natural pseudogroups acting on leaves of stable or unstable foliation of an Anosov diffeomorphism etc The author describes a duality theory for hyperbolic groupoids He shows that for every hyperbolic groupoid G there is a naturally defined dual groupoid G^* acting on the Gromov boundary of a Cayley graph of G The groupoid G^* is also hyperbolic and such that G is equivalent to G^* Several classes of examples of hyperbolic groupoids and their applications are discussed

Period Functions for Maass Wave Forms and Cohomology R. Bruggeman, J. Lewis, D. Zagier, 2015-08-21 The authors construct explicit isomorphisms between spaces of Maass wave forms and cohomology groups for discrete cofinite groups $\mathrm{PSL}_2(\mathbb{R})$ In the case that is the modular group $\mathrm{PSL}_2(\mathbb{Z})$ this gives a cohomological framework for the results in Period functions for Maass wave forms I of J Lewis and D Zagier in Ann Math 153 2001 191 258 where a bijection was given between cuspidal Maass forms and period functions The authors introduce the concepts of mixed parabolic cohomology group and semi analytic vectors in principal series representation This enables them to describe cohomology groups isomorphic to spaces of Maass cusp forms spaces spanned by residues of Eisenstein series and spaces of all invariant eigenfunctions of the Laplace operator For spaces of Maass cusp forms the authors also describe isomorphisms to parabolic cohomology groups with smooth coefficients and standard cohomology groups with distribution coefficients They use the latter correspondence to relate the Petersson scalar product to the cup product in cohomology

Self-Affine Scaling Sets in \mathbb{R}^2 Xiaoye Fu, Jean-Pierre Gabardo, 2014-12-20 There exist results on the connection between the theory of wavelets and the theory of integral self affine tiles and in particular on the construction of wavelet bases using integral self affine tiles However there are many non integral self affine tiles which can also yield wavelet basis In this work the author gives a complete characterization of all one and two dimensional dilation scaling sets such that is a self affine tile satisfying for some R where

is a integral expansive matrix with and **Stability of Line Solitons for the KP-II Equation in \mathbb{R}^2** Tetsu Mizumachi,2015-10-27 The author proves nonlinear stability of line soliton solutions of the KP II equation with respect to transverse perturbations that are exponentially localized as He finds that the amplitude of the line soliton converges to that of the line soliton at initial time whereas jumps of the local phase shift of the crest propagate in a finite speed toward The local amplitude and the phase shift of the crest of the line solitons are described by a system of 1D wave equations with diffraction terms Brandt Matrices and Theta Series over Global Function Fields Chih-Yun Chuang,Ting-Fang Lee, Fu-Tsun Wei,Jing Yu,2015-08-21 The aim of this article is to give a complete account of the Eichler Brandt theory over function fields and the basis problem for Drinfeld type automorphic forms Given arbitrary function field k together with a fixed place the authors construct a family of theta series from the norm forms of definite quaternion algebras and establish an explicit Hecke module homomorphism from the Picard group of an associated definite Shimura curve to a space of Drinfeld type automorphic forms The compatibility of these homomorphisms with different square free levels is also examined These Hecke equivariant maps lead to a nice description of the subspace generated by the authors theta series and thereby contributes to the so called basis problem Restricting the norm forms to pure quaternions the authors obtain another family of theta series which are automorphic functions on the metaplectic group and this results in a Shintani type correspondence between Drinfeld type forms and metaplectic forms **NDA/NA National Defence Academy & Naval Academy Entrance Examination Solved Papers (2015-2024) | Paper 1 (Mathematics) & Paper 2 (General Ability Test) For Exam 2025** Team Prabhat,2024-06-29 Comprehensive Coverage This book encompasses solved papers from the National Defence Academy and Naval Academy entrance examinations from 2015 to 2023 It offers a thorough understanding of the exam pattern question types and difficulty levels for both Papers 1 Mathematics and 2 General Ability English General Knowledge Realistic Practice With access to previous years solved papers readers can engage in realistic practice sessions simulating the actual exam environment This practical approach allows aspirants to gauge their readiness identify strengths and weaknesses and refine their problem solving techniques accordingly Insightful Analysis In addition to providing solutions to the exam questions this book offers insightful analysis and explanations These insights delve into the reasoning behind each solution helping readers understand the underlying concepts and principles Such clarity enhances learning and retention enabling aspirants to approach similar questions with confidence Benchmarking Performance By consistently practicing with the solved papers in this book candidates can benchmark their performance against past trends and standards This benchmarking process allows for self assessment and progress tracking empowering aspirants to monitor their growth and make targeted improvements in weaker areas Strategic Preparation Utilizing this book as a study resource equips NDA NA aspirants with the necessary tools to strategically prepare for the entrance examination From honing mathematical skills to refining language proficiency and enhancing general knowledge this comprehensive guide offers a holistic approach to exam

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Imprimitive Irreducible Modules for Finite Quasisimple Groups Gerhard Hiss, William J. Husen, Kay Magaard, 2015-02-06 Motivated by the maximal subgroup problem of the finite classical groups the authors begin the classification of imprimitive irreducible modules of finite quasisimple groups over algebraically closed fields K A module of a group G over K is imprimitive if it is induced from a module of a proper subgroup of G The authors obtain their strongest results when $\text{char } K = 0$ although much of their analysis carries over into positive characteristic If G is a finite quasisimple group of Lie type they prove that an imprimitive irreducible KG module is Harish Chandra induced This being true for $\text{rm char } K$ different from the defining characteristic of G the authors specialize to the case $\text{char } K = 0$ and apply Harish Chandra philosophy to classify irreducible Harish Chandra induced modules in terms of Harish Chandra series as well as in terms of Lusztig series The authors determine the asymptotic proportion of the irreducible imprimitive KG modules when G runs through a series groups of fixed twisted Lie type One of the surprising outcomes of their investigations is the fact that these proportions tend to 1 if the Lie rank of the groups tends to infinity For exceptional groups G of Lie type of small rank and for sporadic groups G the authors determine all irreducible imprimitive KG modules for arbitrary characteristic of K

Symmetry Breaking for Representations of Rank One Orthogonal Groups Toshiyuki Kobayashi, Birgit Speh, 2015-10-27 The authors give a complete classification of intertwining operators symmetry breaking operators between spherical principal series representations of and They construct three meromorphic families of the symmetry breaking operators and find their distribution kernels and their residues at all poles explicitly Symmetry breaking operators at exceptional discrete parameters are thoroughly studied The authors obtain closed formulae for the functional equations which the composition of the symmetry breaking operators with the Knapp Stein intertwining operators of and satisfy and use them to determine the symmetry breaking operators between irreducible composition factors of the spherical principal series representations of and Some applications are included

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 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 where is a function and 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 [Higher Moments of Banach Space Valued Random Variables](#) Svante

Janson, Sten Kaijser, 2015-10-27 The authors define the m th moment of a Banach space valued random variable as the expectation of its m th tensor power thus the moment if it exists is an element of a tensor power of the original Banach space The authors study both the projective and injective tensor products and their relation Moreover in order to be general and flexible we study three different types of expectations Bochner integrals Pettis integrals and Dunford integrals *On the Theory of Weak Turbulence for the Nonlinear Schrodinger Equation* M. Escobedo, J. J. L. Velázquez, 2015-10-27 The authors study the Cauchy problem for a kinetic equation arising in the weak turbulence theory for the cubic nonlinear Schrödinger equation They define suitable concepts of weak and mild solutions and prove local and global well posedness results Several qualitative properties of the solutions including long time asymptotics blow up results and condensation in finite time are obtained The authors also prove the existence of a family of solutions that exhibit pulsating behavior

[Deformation Theory and Local-Global Compatibility of Langlands Correspondences](#) Martin Luu, 2015-10-27 The deformation theory of automorphic representations is used to study local properties of Galois representations associated to automorphic representations of general linear groups and symplectic groups In some cases this allows to identify the local Galois representations with representations predicted by a local Langlands correspondence **Analysis of the Hodge Laplacian on the Heisenberg Group** Detlef Müller, Marco M. Peloso, Fulvio Ricci, 2014-12-20 The authors consider the Hodge Laplacian Δ on the Heisenberg group H_n endowed with a left invariant and U_n invariant Riemannian metric For $0 \leq k \leq 2n-1$ let Δ_k denote the Hodge Laplacian restricted to k forms In this paper they address three main related questions 1 whether the L^2 and L^p Hodge decompositions 1 **Faithfully Quadratic Rings** M. Dickmann, F. Miraglia, 2015-10-27 In this monograph the authors extend the classical algebraic theory of quadratic forms over fields to diagonal quadratic forms with invertible entries over broad classes of commutative unitary rings where is not a sum of squares and is invertible They accomplish this by 1 Extending the classical notion of matrix isometry of forms to a suitable notion of isometry where is a preorder of the given ring or 2 Introducing in this context three axioms expressing simple properties of value representation of elements of the ring by quadratic forms well known to hold in the field case **Locally AH-Algebras** Huaxin

Analysis of the Hodge Laplacian on the Heisenberg Group Detlef Müller, Marco M. Peloso, Fulvio Ricci, 2014-12-20 The authors consider the Hodge Laplacian Δ on the Heisenberg group H_n endowed with a left invariant and U_n invariant Riemannian metric For $0 \leq k \leq 2n-1$ let Δ_k denote the Hodge Laplacian restricted to k forms In this paper they address three main related questions 1 whether the L^2 and L^p Hodge decompositions 1 **Faithfully Quadratic Rings** M. Dickmann, F. Miraglia, 2015-10-27 In this monograph the authors extend the classical algebraic theory of quadratic forms over fields to diagonal quadratic forms with invertible entries over broad classes of commutative unitary rings where is not a sum of squares and is invertible They accomplish this by 1 Extending the classical notion of matrix isometry of forms to a suitable notion of isometry where is a preorder of the given ring or 2 Introducing in this context three axioms expressing simple properties of value representation of elements of the ring by quadratic forms well known to hold in the field case **Locally AH-Algebras** Huaxin

Lin,2015-04-09 A unital separable algebra is said to be locally AH with no dimension growth if there is an integer satisfying the following for any and any compact subset there is a unital subalgebra of with the form where is a compact metric space with covering dimension no more than and is a projection such that The authors prove that the class of unital separable simple algebras which are locally AH with no dimension growth can be classified up to isomorphism by their Elliott invariant As a consequence unital separable simple algebras which are locally AH with no dimension growth are isomorphic to a unital simple AH algebra with no dimension growth

Geometric Complexity Theory IV: Nonstandard Quantum Group for the Kronecker Problem

Jonah Blasiak,Ketan D. Mulmuley,Milind Sohoni,2015-04-09 The Kronecker coefficient is the multiplicity of the irreducible in the restriction of the irreducible via the natural map where are vector spaces and A fundamental open problem in algebraic combinatorics is to find a positive combinatorial formula for these coefficients The authors construct two quantum objects for this problem which they call the nonstandard quantum group and nonstandard Hecke algebra They show that the nonstandard quantum group has a compact real form and its representations are completely reducible that the nonstandard Hecke algebra is semisimple and that they satisfy an analog of quantum Schur Weyl duality

Critical Population and Error Threshold on the Sharp Peak Landscape for a Moran Model

Raphaël Cerf,2014-12-20 The goal of this work is to propose a finite population counterpart to Eigen's model which incorporates stochastic effects The author considers a Moran model describing the evolution of a population of size of chromosomes of length over an alphabet of cardinality The mutation probability per locus is He deals only with the sharp peak landscape the replication rate is for the master sequence and for the other sequences He studies the equilibrium distribution of the process in the regime where

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