Figure 1

Major Counting Of Nonintersecting Lattice Paths And Generating Functions For Tableaux

Paul Bourdon,Joel H. Shapiro

Major Counting Of Nonintersecting Lattice Paths And Generating Functions For Tableaux:

The Major Counting of Nonintersecting Lattice Paths and Generating Functions for Tableaux Christian Krattenthaler,1995 **The Major Counting of Nonintersecting Lattice Paths and Generating Functions for Tableaux** Christian Krattenthaler,1995 A theory of counting nonintersecting lattice paths by the major index and its generalizations is developed We obtain determinantal expressions for the corresponding generating functions for families of nonintersecting lattice paths with given starting points and given final points where the starting points lie on a line parallel to italic x italic y 0 In some cases these determinants can be evaluated to result in simple products As applications we compute the generating function for tableaux with italic p odd rows with at most italic c columns and with parts between 1 and italic n Moreover we compute the generating function for the same kind of tableaux which in addition have only odd parts We thus also obtain a closed form for the generating function for symmetric plane partitions with at most italic n rows with parts between 1 and italic c and with italic p odd entries on the main diagonal In each case the result is a simple product By summing with respect to italic p we provide new proofs of the Bender Knuth and MacMahon ex conjectures which were first proved by Andrews Gordon and Macdonald The link between nonintersecting lattice paths and tableaux is given by variations of the Knuth correspondence Lattice Path Combinatorics and Special Counting Sequences Chunwei Song,2024-09-17 This book endeavors to deepen our understanding of lattice path combinatorics explore key types of special sequences elucidate their interconnections and concurrently champion the author s interpretation of the combinatorial spirit The author intends to give an up to date introduction to the theory of lattice path combinatorics its relation to those special counting sequences important in modern combinatorial studies such as the Catalan Schr der Motzkin Delannoy numbers and their generalized versions Brief discussions of applications of lattice path combinatorics to symmetric functions and connections to the theory of tableaux are also included Meanwhile the author also presents an interpretation of the combinatorial spirit i e counting without counting bijective proofs and understanding combinatorics from combinatorial structures internally and more hoping to shape the development of contemporary combinatorics Lattice Path Combinatorics and Special Counting Sequences From an Enumerative Perspective will appeal to graduate students and advanced undergraduates studying combinatorics discrete mathematics or computer science **Advances in Combinatorial Methods and Applications to Probability and Statistics** N. Balakrishnan,2012-12-06 Sri Gopal Mohanty has made pioneering contributions to lattice path counting and its applications to probability and statistics This is clearly evident from his lifetime publications list and the numerous citations his publications have received over the past three decades My association with him began in 1982 when I came to McMaster Univer sity Since then I have been associated with him on many different issues at professional as well as cultural levels I have benefited greatly from him on both these grounds I have enjoyed very much being his colleague in the statistics group here at McMaster University and also as his friend While I

admire him for his honesty sincerity and dedication I appreciate very much his kindness modesty and broad mindedness Aside from our common interest in mathematics and statistics we both have great love for Indian classical music and dance We have spent numerous many different subjects associated with the Indian music and hours discussing dance I still remember fondly the long drive to Amherst Massachusetts I had a few years ago with him and his wife Shantimayee and all the hearty discussions we had during that journey Combinatorics and applications of combinatorial methods in probability and statistics has become a very active and fertile area of research in the recent past **Handbook of Enumerative Combinatorics** Miklos Bona,2015-03-24 Presenting the state of the art the Handbook of Enumerative Combinatorics brings together the work of today s most prominent researchers The contributors survey the methods of combinatorial enumeration along with the most frequent applications of these methods This important new work is edited by Miklos Bona of the University of Florida where he **Shortest Paths for Sub-Riemannian Metrics on Rank-Two Distributions** Wensheng Liu,Hector J. Sussmann,1995 A sub Riemannian manifold italic capitals M E G consists of a finite dimensional manifold italic capital M a rank two bracket generating distribution italic capital E on italic capital M and a Riemannian metric italic capital G on italic capital E All length minimizing arcs on italic capitals M E G are either normal extremals or abnormal extremals Normal extremals are locally optimal i e every sufficiently short piece of such an extremal is a minimizer The question whether every length minimizer is a normal extremal was recently settled by R G Montgomery who exhibited a counterexample The present work proves that regular abnormal extremals are locally optimal and in the case that italic capital E satisfies a mild additional restriction the abnormal minimizers are ubiquitous rather than exceptional All the topics of this research report historical notes examples abnormal extremals Hamiltonians nonholonomic distributions sub Riemannian distance the relations between minimality and extremality regular abnormal extremals local optimality of regular abnormal extremals etc are presented in a very clear and effective way *Vector Partitions, Visible Points and Ramanujan Functions* Geoffrey B. Campbell,2024-05-29 Vector Partitions Visible Points and Ramanujan Functions offers a novel theory of Vector Partitions though very much grounded in the long established work of others that could be developed as an extension to the existing theory of Integer Partitions The book is suitable for graduate students in physics applied mathematics number theory and computational mathematics It takes the reader up to research level presenting new results alongside known classical results from integer partitions and areas of vector and multipartite partition theory It also sets forth new directions for research for the more advanced reader Above all the intention of the book is to bring new inspiration to others who study mathematics and related areas It is hoped that some new ideas will be launched to add value and insight into many of the classical and new theories surrounding partitions The book is an appreciation of the many gifted authors of research into partitions over the past century and before in the hope that more may come of this for future generations Features Provides a step by step guide through the known literature on Integer and Vector Partitions and a focus on the not so well known Visible

Point Vector identities Serves as a reference for graduate students and researchers in physics applied mathematics number theory and computational mathematics Offers a variety of practical examples as well as sets of exercises suitable for students and researchers Geoffrey B Campbell completed his PhD at Australian National University in 1998 under the esteemed physicist Professor Rodney Baxter His affiliation with the Australian National University Mathematical Sciences Institute has continued for over 30 years Within that time frame Geoffrey also served eight years as an Honorary Research Fellow at LaTrobe University Mathematics and Statistics Department in Melbourne Currently he writes ongoing articles for the Australian Mathematical Society Gazette Within the international scope Geoffrey currently serves as a PhD external committee member for a mathematics graduate student at Washington State University in America Geoffrey has built a career within Australian Commonwealth and State government departments including as an Advisor at the Department of Prime Minister and Cabinet as Analyst Researcher for a Royal Commission Geoffrey specializes in complex data machine learning including data analytics He is also a published poet in Australian anthologies and literary magazines **Special Functions, q-Series and Related Topics** Mourad Ismail,David R. Masson,Mizan Rahman,1997 This book contains contributions from the proceedings at The Fields Institute workshop on Special Functions q Series and Related Topics that was held in June 1995 The articles cover areas from quantum groups and their representations multivariate special functions q series and symbolic algebra techniques as well as the traditional areas of single variable special functions The book contains both pure and applied topics and reflects recent trends of research in the various areas of special functions

Wavelet Methods for Pointwise Regularity and Local Oscillations of Functions Stéphane Jaffard,Yves Meyer,1996 We investigate several topics related to the local behavior of functions pointwise H lder regularity local scaling invariance and very oscillatory chirp like behaviors Our main tool is to relate these notions to two microlocal conditions which are defined either on the Littlewood Paley decomposition or on the wavelet transform We give characterizations and the main properties of these two microlocal spaces and we give several applications such as bounds on the dimension of the set of H lder singularities of a function Sobolev regularity of trace functions and chirp expansions of specific functions *Degree 16 Standard L-function of $GSp(2) \times GSp(2)$* Dihua Jiang,1996 Automorphic L functions introduced by Robert Langlands in the 1960s are natural extensions of such classical L functions as the Riemann zeta function Hecke L functions etc They form an important part of the Langlands Program which seeks to establish connections among number theory representation theory and geometry This book offers via the Rankin Selberg method a thorough and comprehensive examination of the degree 16 standard L function of the product of two rank two symplectic similitude groups which includes the study of the global integral of Rankin Selberg type and local integrals analytic properties of certain Eisenstein series of symplectic groups and the relevant residue representations L Functions for the Orthogonal Group David Ginzburg,Il'i͡a͡ Iosifovich Pi͡a͡tet͡s͡kiĭ-Shapiro,Stephen Rallis,1997 In this book the authors establish global Rankin Selberg integrals which

determine the standard italic capital L function for the group italic capitals GL subscript italic r x italic capital G where italic capital G is an isometry group of a nondegenerate symmetric form The class of automorphic representations considered here is for any pair capital Greek Pi1 otimes dyadic Kronecker tensor product symbol capital Greek Pi2 where capital Greek Pi1 is generic cuspidal for italic capitals GL subscript italic r italic capital A and capital Greek Pi2 is cuspidal for italic capital G italic capital A The construction of these italic capital L functions involves the use of certain new models of local representations these models generalize the usual generic models The authors also computer local unramified factors in a new way using geometric ideas **Classification of Direct Limits of Even Cuntz-Circle Algebras** Huaxin Lin,Norman Christopher Phillips,1995 We prove a classification theorem for purely infinite C algebras that is strong enough to show that the tensor products of two different irrational rotation algebras with the same even Cuntz algebra are isomorphic

Compact Connected Lie Transformation Groups on Spheres with Low Cohomogeneity. II Eldar Straume,1997 The cohomogeneity of a transformation group italic capitals G X is by definition the dimension of its orbit space italic c dim italic capitals X G We are concerned with the classification of differentiable compact connected Lie transformation groups on homology spheres with italic c less than or equal to symbol 2 and the main results are summarized in five theorems A B C D and E in part I This paper is part II of the project and addresses theorems D and E D examines the orthogonal model from theorem A and orbit structures while theorem E addresses the existence of exotic italic capital G spheres **Cyclic Phenomena for Composition Operators** Paul Bourdon,Joel H. Shapiro,1997 We undertake a systematic study of cyclic phenomena for composition operators Our work shows that composition operators exhibit strikingly diverse types of cyclic behavior and it connects this behavior with classical problems involving complex polynomial approximation and analytic functional equations Excluding Infinite Clique Minors Neil Robertson,Paul D. Seymour,Robin Thomas,1995 For each infinite cardinal lowercase Greek Kappa we give a structural characterization of the graphs with no italic capital K subscript lowercase Greek Kappa minor We also give such a characterization of the graphs with no half grid minor *Solution of the Truncated Complex Moment Problem for Flat Data* Raúl E. Curto,Lawrence A. Fialkow,1996 We introduce a matricial approach to the truncated complex moment problem and apply it to the case of moment matrices of flat data type for which the columns corresponding to the homogeneous monomials in italic z and italic z of highest degree can be written in terms of monomials of lower degree We discuss the connection between complex moment problems and the subnormal completion problem for 2 variable weighted shifts and present in detail the construction of solutions for truncated complex moment problems associated with monomials of degrees one and two **On Finite Groups and Homotopy Theory** Ran Levi,1995 In part 1 we study the homology homotopy and stable homotopy of capital Greek Omega italic capital B lowercase Greek Pi up arrowhead over subscript italic p where italic capital G is a finite italic p perfect group In part 2 we define the concept of resolutions by fibrations over an arbitrary family of spaces **Large Time Behavior of Solutions for General**

Quasilinear Hyperbolic-Parabolic Systems of Conservation Laws Tai-Ping Liu,Yanni Zeng,1997 We are interested in the time asymptotic behavior of solutions to viscous conservation laws Through the pointwise estimates for the Green s function of the linearized system and the analysis of coupling of nonlinear diffusion waves we obtain explicit expressions of the time asymptotic behavior of the solutions This yields optimal estimates in the integral norms For most physical models the viscosity matrix is not positive definite and the system is hyperbolic parabolic and not uniformly parabolic This implies that the Green s function may contain Dirac lowercase Greek Delta functions When the corresponding inviscid system is non strictly hyperbolic the time asymptotic state contains generalized Burgers solutions These are illustrated by applying our general theory to the compressible Navier Stokes equations and the equations of magnetohydrodynamics *CR-Geometry and Deformations of Isolated Singularities* Ragnar-Olaf Buchweitz,John James Millson,1997 In this power we show how to compute the parameter space italic capital X for the versal deformation of an isolated singularity italic capital V 0 under the assumptions italic dim italic capital V greater than or equal to symbol 4 depth 0 italic capital V greater than or equal to symbol 3 from the CR structure on a link italic capital M of the singularity We do this by showing that the space italic capital X is isomorphic to the space denoted here by script capital K subscript italic capital M associated to italic capital M by Kuranishi in 1977 In fact we produce isomorphisms of the associated complete local rings by producing quasi isomorphisms of the controlling differential graded Lie algebras for the corresponding formal deformation theories **Maximality Properties in Numerical Semigroups and Applications to One-Dimensional Analytically Irreducible Local Domains** Valentina Barucci,David E. Dobbs,Marco Fontana,1997 In Chapter I various numerical semigroup theoretic concepts and constructions are introduced and characterized Applications in Chapter II are made to the study of Noetherian local one dimensional analytically irreducible integral domains especially for the Gorenstein maximal embedding dimension and Arf cases as well as to the so called Kunz case a pervasive kind of domain of Cohen Macaulay type 2

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