

ZEROS OF MODULAR FORMS AND FABER POLYNOMIALS

ZE'EV RUDNICK

ABSTRACT. We study the zeros of cusp forms of large weight for the modular group, which have a very large order of vanishing at infinity, so that they have a fixed number D of finite zeros in the fundamental domain. We show that for large weight the zeros of these forms cluster near D vertical lines, with the zeros of a weight k form lying at height approximately $\log k$. This is in contrast to previously known cases, such as Eisenstein series, where the zeros lie on the circular part of the boundary of the fundamental domain, or the case of cuspidal Hecke eigenforms where the zeros are uniformly distributed in the fundamental domain.

Our method uses the Faber polynomials. We show that for our class of cusp forms, the associated Faber polynomials, suitably renormalized, converge to the truncated exponential polynomial of degree D .

1. INTRODUCTION

For an even integer $k \geq 0$ let M_k be the space of modular forms of weight k for the full modular group $\mathrm{SL}(2, \mathbb{Z})$. Any $f \in M_k$ has an expansion

$$f(\tau) = \sum_{n=0}^{\infty} a_f(n) q^n$$

where $q = e^{2\pi i \tau}$, $\tau \in \mathbb{H} = \{\tau : \mathrm{Im}(\tau) > 0\}$, and one defines

$$\mathrm{ord}_{\infty}(f) = \min(n : a_f(n) \neq 0).$$

The space of such forms M_k is finite dimensional, spanned by the holomorphic Eisenstein series $E_k(\tau) = \frac{1}{2} \sum_{(c,d) \in \mathbb{Z}^2 \setminus (0,0)} (c\tau + d)^{-k}$ ($k \geq 4$) and the space of cusp forms S_k , made up of forms which vanish at infinity ($\mathrm{ord}_{\infty}(f) \geq 1$). Writing

$$k = 12\ell + k', \quad k' \in \{0, 4, 6, 8, 10, 14\}$$

then $\ell = \dim S_k$ when $\ell \geq 1$, and for any nonzero $f \in M_k$, we have $\mathrm{ord}_{\infty}(f) \leq \ell$.

Date: August 17, 2023.

Series Of Faber Polynomials

**Eugene L. Allgower, Kurt Georg, Rick
Miranda**



Series Of Faber Polynomials:

Series of Faber Polynomials P.K. Suetin, E.V. Pankratiev, 1998-03-23 Presents some important classical and modern results of the series of Faber polynomials and their applications Interest in this subject has increased rapidly over the last decade although the presentation of research has until now been confined mainly to journal articles Applications include theory of functions of complex variables theory of analytic function approximation and some aspects of numerical analysis

STUDIES IN FABER POLYNOMIALS. HASOON SHAKER AMIRI, 1961 **A Generalization of Faber's Polynomials** Joseph Leonard Walsh, 1958 **Self-Organization of Complex Structures** Frank Schweitzer, 1997-07-16 During the past twenty years a broad spectrum of theories and methods have been developed in physics chemistry and molecular biology to explain structure formation in complex systems These methods have been applied to many different fields such as economics sociology and town planning and this book reflects the interdisciplinary nature of complexity and self organisation The main focus is on the emergence of collective phenomena from individual or microscopic interactions Presents a wide ranging overview from fundamental aspects of the evolution of complexity to applications in biology ecology sociology economics and urban structure formation **Polynomial expansions of analytic functions** Ralph P. Boas, Robert Creighton Buck, 2013-06-29 This monograph deals with the expansion properties in the complex domain of sets of polynomials which are defined by generating relations It thus represents a synthesis of two branches of analysis which have been developing almost independently On the one hand there has grown up a body of results dealing with the more or less formal properties of sets of polynomials which possess simple generating relations Much of this material is summarized in the Bateman compendia ERDELYI 1 vol III chap 19 and in TRUESDELL 1 On the other hand a problem of fundamental interest in classical analysis is to study the representability of an analytic function $f(z)$ as a series $\sum c_p z^{p(z)}$ where p is a prescribed sequence of functions and the connections between the function f and the coefficients c BIEBERBACH's monograph *Analytische Fortsetzung Ergebnisse der Mathematik* new series no 3 can be regarded as a study of this problem for the special choice $p(z) = z$ and illustrates the depth and detail which such a specialisation allows However the wealth of available information about other sets of polynomials has seldom been put to work in this connection the application of generating relations to expansion of functions is not even mentioned in the Bateman compendia At the other extreme J M Overconvergence in Complex Approximation Sorin G. Gal, 2014-07-08 This monograph deals with the quantitative overconvergence phenomenon in complex approximation by various operators The book is divided into three chapters First the results for the Schurer Faber operator Beta operators of first kind Bernstein Durrmeyer type operators and Lorentz operator are presented The main focus is on results for several q Bernstein kind of operators with $q \geq 1$ when the geometric order of approximation $1/q_n$ is obtained not only in complex compact disks but also in quaternion compact disks and in other compact subsets of the complex plane The focus then shifts to quantitative overconvergence and convolution overconvergence results for the complex potentials

generated by the Beta and Gamma Euler's functions. Finally quantitative overconvergence results for the most classical orthogonal expansions of Chebyshev, Legendre, Hermite, Laguerre and Gegenbauer kinds attached to vector valued functions are presented. Each chapter concludes with a notes and open problems section thus providing stimulation for further research. An extensive bibliography and index complete the text. This book is suitable for researchers and graduate students working in complex approximation and its applications, mathematical analysis and numerical analysis.

Inverse Spectral Problems for Linear Differential Operators and Their Applications V A Yurko, 2000-01-18. Aims to construct the inverse problem theory for ordinary non self adjoint differential operators of arbitrary order on the half line and on a finite interval. The book consists of two parts: in the first part the author presents a general inverse problem of recovering differential equations with integrable coefficients when the behaviour of the spectrum is arbitrary. The Weyl matrix is introduced and studied as a spectral characteristic. The second part of the book is devoted to solving incomplete inverse problems when a priori information about the operator or its spectrum is available and these problems are significant in applications.

Exploiting Symmetry in Applied and Numerical Analysis Eugene L. Allgower, Kurt Georg, Rick Miranda, Symmetry plays an important role in theoretical physics, applied analysis, classical differential equations and bifurcation theory. Although numerical analysis has incorporated aspects of symmetry on an ad hoc basis, there is now a growing collection of numerical analysts who are currently attempting to use symmetry groups and representation theory as fundamental tools in their work. This book contains the proceedings of an AMS SIAM Summer Seminar in Applied Mathematics held in 1992 at Colorado State University. The seminar, which drew about 100 scientists from around the world, was intended to stimulate the systematic incorporation of symmetry and group theoretical concepts into numerical methods. The papers in this volume have been refereed and will not be published elsewhere.

Progress in Approximation Theory and Applicable Complex Analysis Narendra Kumar Govil, Ram Mohapatra, Mohammed A. Qazi, Gerhard Schmeisser, 2017-04-03. Current and historical research methods in approximation theory are presented in this book, beginning with the 1800s and following the evolution of approximation theory via the refinement and extension of classical methods and ending with recent techniques and methodologies. Graduate students, postdocs and researchers in mathematics, specifically those working in the theory of functions, approximation theory, geometric function theory and optimization, will find new insights as well as a guide to advanced topics. The chapters in this book are grouped into four themes: the first, polynomials. Chapters 1-8 includes inequalities for polynomials and rational functions, orthogonal polynomials and location of zeros. The second, inequalities and extremal problems are discussed in Chapters 9-13. The third, approximation of functions involves the approximants being polynomials, rational functions and other types of functions and are covered in Chapters 14-19. The last theme, quadrature, cubature and applications, comprises the final three chapters and includes an article coauthored by Rahman. This volume serves as a memorial volume to commemorate the distinguished career of Qazi Ibadur Rahman, 1934-2013, of the University of

Montr al Rahman was considered by his peers as one of the prominent experts in analytic theory of polynomials and entire functions The novelty of his work lies in his profound abilities and skills in applying techniques from other areas of mathematics such as optimization theory and variational principles to obtain final answers to countless open problems

Applied and Computational Complex Analysis, Volume 3 Peter Henrici, 1993-04-16 Presents applications as well as the basic theory of analytic functions of one or several complex variables The first volume discusses applications and basic theory of conformal mapping and the solution of algebraic and transcendental equations Volume Two covers topics broadly connected with ordinary differential equations special functions integral transforms asymptotics and continued fractions Volume Three details discrete fourier analysis cauchy integrals construction of conformal maps univalent functions potential theory in the plane and polynomial expansions

Quaternionic Approximation Sorin G. Gal, Irene Sabadini, 2019-04-12 This book presents the extensions to the quaternionic setting of some of the main approximation results in complex analysis It also includes the main inequalities regarding the behavior of the derivatives of polynomials with quaternionic coefficients With some few exceptions all the material in this book belongs to recent research of the authors on the approximation of slice regular functions of a quaternionic variable The book is addressed to researchers in various areas of mathematical analysis in particular hypercomplex analysis and approximation theory It is accessible to graduate students and suitable for graduate courses in the above framework

Polynomial Expansions of Analytic Functions Ralph P. Jr. Boas, R.C. Buck, 2012-12-06 This monograph deals with the expansion properties in the complex domain of sets of polynomials which are defined by generating relations It thus represents a synthesis of two branches of analysis which have been developing almost independently On the one hand there has grown up a body of results dealing with the more or less formal properties of sets of polynomials which possess simple generating relations Much of this material is summarized in the Bateman compendia ERDELYI 1J vol III chap 19 and in TRUESDELL 1J On the other hand a problem of fundamental interest in classical analysis is to study the representability of an analytic function $f(z)$ as a series $\sum C_n P_n(z)$ where P_n is a prescribed sequence of functions and the connections between the function f and the coefficients c_n BIEBERBACH S monograph *Analytische Fortsetzung Ergebnisse der Mathematik* new series no 3 can be regarded as a study of this problem for the special choice $P_n(z) = z^n$ and illustrates the depth and detail which such a specialization allows However the wealth of available information about other sets of polynomials has seldom been put to work in this connection the application of generating relations to expansion of functions is not even mentioned in the Bateman compendia At the other extreme J M

Encyclopaedia of Mathematics Michiel Hazewinkel, 2012-12-06 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977-1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type

articles dealing with the various main directions in mathematics where a rather fine subdivision has been used. The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible. On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science, engineers and teachers of mathematics. These articles treat their material at a fairly general level and aim to give an idea of the kind of problems, techniques and concepts involved in the area in question. They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions. *Encyclopaedia of Mathematics* M.

Hazewinkel, 2013-12-01 *Twelve Papers on Algebra and Real Functions* S. N. Cernikov, N. V. Cernikova, A. N.

Kolmogorov, A. I. Mal'cev, B. I. Plotkin, 1961-12-31

Lectures on Complex Approximation

GAIER, 2012-12-06

The theory of General Relativity after its invention by Albert Einstein remained for many years a monument of mathematical speculation striking in its ambition and its formal beauty but quite separated from the main stream of modern Physics which had centered after the early twenties on quantum mechanics and its applications. In the last ten or fifteen years however the situation has changed radically. First a great deal of significant experimental data became available. Then important contributions were made to the incorporation of general relativity into the framework of quantum theory. Finally in the last three years exciting developments took place which have placed general relativity and all the concepts behind it at the center of our understanding of particle physics and quantum field theory. Firstly this is due to the fact that general relativity is really the original non-abelian gauge theory and that our description of quantum field interactions makes extensive use of the concept of gauge invariance. Secondly the ideas of supersymmetry have enabled theoreticians to combine gravity with other elementary particle interactions and to construct what is perhaps the first approach to a more finite quantum theory of gravitation which is known as supergravity. **Introduction to Functions of a Complex Variable** J. H.

Curtiss, 2021-07-28 This book includes information on elementary general topology, the Cauchy Integral Theorem and concepts of homology and homotopy in their application to the Cauchy theory. It is intended for an introductory course in complex analysis at the first year graduate and advanced undergraduate level. Discrepancy of Signed Measures and Polynomial Approximation

Vladimir V. Andrievskii, Hans-Peter Blatt, 2013-06-29 In many situations in approximation theory the distribution of points in a given set is of interest. For example the suitable choice of interpolation points is essential to obtain satisfactory estimates for the convergence of interpolating polynomials. Zeros of orthogonal polynomials are the nodes for Gauss quadrature formulas. Alternation points of the error curve characterize the best approximating polynomials. In classical complex analysis an interesting feature is the location of zeros of approximants to an analytic function. In 1918 R. Jentzsch [91] showed that every point of the circle of convergence of a power series is a limit point of zeros of its partial sums.

This theorem of Jentzsch was sharpened by Szegő in 1923. He proved that for a power series with finite radius of convergence there is an infinite sequence of partial sums the zeros of which are equidistributed with respect to the angular measure. In 1929, Bernstein [27] stated the following theorem: Let f be a positive continuous function on $[1, 1]$ if almost all zeros of the polynomials of best L^2 approximation to f in a weighted L norm are outside of an open ellipse c with foci at 1 and 1 then f has a continuous extension that is analytic in c .

Russian Mathematical Surveys, 1977 *A Journey through the History of Numerical Linear Algebra* Claude Brezinski, Gérard Meurant, Michela Redivo-Zaglia, 2022-12-06. This expansive volume describes the history of numerical methods proposed for solving linear algebra problems from antiquity to the present day. The authors focus on methods for linear systems of equations and eigenvalue problems and describe the interplay between numerical methods and the computing tools available at the time. The second part of the book consists of 78 biographies of important contributors to the field. *A Journey through the History of Numerical Linear Algebra* will be of special interest to applied mathematicians especially researchers in numerical linear algebra people involved in scientific computing and historians of mathematics.

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