

REAL ANALYTIC FUNCTIONS AND MONOMIAL CURVES

JÁNOS KOLLÁR

ABSTRACT. We show that a function is real analytic at the origin iff it is arc-analytic, has a subanalytic graph, and its restriction to every monomial curve is analytic. This complements recent results of Kuchars and Kurdyka.

A classical theorem of Hartogs says that a function on \mathbb{C}^n is complex analytic iff its restriction to every complex line parallel to a coordinate axis is complex analytic [Har1906]. For functions on \mathbb{R}^n the situation is considerably more complicated.

One can check real analyticity on 2-planes. That is, a function $F(x_1, \dots, x_n)$ is real analytic if its restriction to every 2-plane is real analytic [BS71, BS19]; see [BKK20] for a similar result for 2-spheres.

However, restrictions to lines carry very little information, as shown by the simple example $xy/(x^2 + y^2)$ on \mathbb{R}^2 .

Following [Kur88], a function $F(x_1, \dots, x_n)$ is called *arc-analytic* iff the composite $F(\phi_1(t), \dots, \phi_n(t))$ is real analytic, whenever the ϕ_i are real analytic. Every real analytic function is arc-analytic, but there are arc-analytic functions that are not even continuous; see [BMF91, Kur91, Kur94].

The situation improves if we impose additional restrictions on F . [BM90] shows that if F is arc-analytic and its graph is subanalytic, then F becomes real analytic after a suitable sequence of (local, real analytic) blow-ups; see Theorem 7 for the statement and [BM88] for the basic theory of subanalytic sets. It is, however, not clear how to convert this into a criterion for real analyticity on \mathbb{R}^n itself.

The recent paper [KK22] proposes an approach that looks more carefully at some special curves. Their main result says that if $F(x_1, \dots, x_n)$ is arc-analytic and its graph is subanalytic, then F is real analytic at the origin iff

$$F(a_1 t^p + b_1 t^q, \dots, a_n t^p + b_n t^q) \in \mathbb{R}[[t^p, t^q]] \subset \mathbb{R}[[t]]$$

for every $a_i, b_i \in \mathbb{R}$ and $0 < p, q \in \mathbb{N}$. That is, $F(a_1 t^p + b_1 t^q, \dots, a_n t^p + b_n t^q)$ has a convergent Taylor expansion that involves only the t -powers t^{rp+sq} for $r, s \in \mathbb{N}$.

The aim of this paper is to prove the following variant of this result.

Theorem 1. *Let $F(x_1, \dots, x_n)$ be an arc-analytic function on an open subset $U \subset \mathbb{R}^n$ whose graph is subanalytic. Then F is analytic at the origin iff its restriction to every monomial curve is analytic at the origin. That is, iff*

$$F(t^{m_1}, \dots, t^{m_n}) \in \mathbb{R}[[t^{m_1}, \dots, t^{m_n}]] \subset \mathbb{R}[[t]] \quad (1.1)$$

for every $0 < m_i \in \mathbb{N}$.

Arc-analyticity implies that $F(t^{m_1}, \dots, t^{m_n}) \in \mathbb{R}[[t]]$. We may always assume that $(m_1, \dots, m_n) = 1$, and then $\mathbb{R}[[t^{m_1}, \dots, t^{m_n}]] \supset t^r \mathbb{R}[[t]]$ for some $r = r(m_1, \dots, m_n)$. (See Definition 10 for explicit bounds on $r(m_1, \dots, m_n)$.) So (1.1) states the vanishing of finitely many terms of the Taylor expansion of $F(t^{m_1}, \dots, t^{m_n})$, depending only on m_1, \dots, m_n .

A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions

Mike Field



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A Primer of Real Analytic Functions Steven G. Krantz, Harold R. Parks, 2002-06-27 Key topics in the theory of real analytic functions are covered in this text and are rather difficult to pry out of the mathematics literature This expanded and updated 2nd ed will be published out of Boston in Birkh user Adavaned Texts series Many historical remarks examples references and an excellent index should encourage the reader study this valuable and exciting theory Superior advanced textbook or monograph for a graduate course or seminars on real analytic functions New to the second edition a revised and comprehensive treatment of the Fa de Bruno formula topologies on the space of real analytic functions alternative characterizations of real analytic functions surjectivity of partial differential operators And the Weierstrass preparation theorem

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A Primer of Real Analytic Functions KRANTZ, PARKS, 2013-03-09 The subject of real analytic functions is one of the oldest in mathe matical analysis Today it is encountered early in ones mathematical training the first taste usually comes in calculus While most work ing mathematicians use real analytic functions from time to time in their work the vast lore of real analytic functions remains obscure and buried in the literature It is remarkable that the most accessible treatment of Puiseux s theorem is in Lefschetz s quite old Algebraic Geometry that the clearest discussion of resolution of singularities for real analytic manifolds is in a book review by Michael Atiyah that there is no comprehensive discussion in print of the embedding prob lem for real analytic manifolds We have had occasion in our collaborative research to become ac quainted with both the history and the scope of the theory of real analytic functions It seems both appropriate and timely for us to gather together this information in a single volume The material presented here is of three kinds The elementary topics covered in Chapter 1 are presented in great detail Even results like a real ana lytic inverse function

theorem are difficult to find in the literature and we take pains here to present such topics carefully Topics of middling difficulty such as separate real analyticity Puiseux series the FBI transform and related ideas Chapters 2 4 are covered thoroughly but rather more briskly *A Primer of Real Analytic Functions (Birkhäuser Advanced Texts Basler Lehrbücher)* Oscar E. Lloyd, 2015-08-30 This updated and expanded second edition of the *A Primer of Real Analytic Functions* Birkhäuser Advanced Texts Basler Lehrbücher provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject's core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for all those interested in the subject We hope you find this book useful in shaping your future career Business Feel free to send us your inquiries related to our publications to info@pwpublishers.pw

A Panorama of Harmonic Analysis Steven Krantz, 1999-09-02 Tracing a path from the earliest beginnings of Fourier series through to the latest research *A Panorama of Harmonic Analysis* discusses Fourier series of one and several variables the Fourier transform spherical harmonics fractional integrals and singular integrals on Euclidean space The climax is a consideration of ideas from the point of view of spaces of homogeneous type which culminates in a discussion of wavelets This book is intended for graduate students and advanced undergraduates and mathematicians of whatever background who want a clear and concise overview of the subject of commutative harmonic analysis **Geometric Analysis on Real**

Analytic Manifolds Andrew D. Lewis, 2023-11-07 This monograph provides some useful tools for performing global geometric analysis on real analytic manifolds At the core of the methodology of the book is a variety of descriptions for the topologies for the space of real analytic sections of a real analytic vector bundle and for the space of real analytic mappings between real analytic manifolds Among the various descriptions for these topologies is a development of geometric seminorms for the space of real analytic sections To illustrate the techniques in the book a number of fundamental constructions in differential geometry are shown to induce continuous mappings on spaces of real analytic sections and mappings Aimed at researchers at the level of Doctoral students and above the book introduces the reader to the challenges and opportunities of real analytic analysis and geometry **Topics in Complex Analysis and Operator Theory** Oscar

Blasco, 2012 This book contains the lecture notes as well as some invited papers presented at the Third Winter School in Complex Analysis Operator Theory and Applications held February 2 5 2010 in Valencia Spain The book is divided into two parts The first is an extended self contained version of the mini courses taught at the School The papers in this first part are Notes on real analytic functions and classical operators by Pawel Domanski Shining a Hilbertian lamp on the bidisk by John E McCarthy Selected problems in perturbation theory by Vladimir V Peller and Composition operators on Hardy Orlicz spaces by Luis Rodriguez Piazza The second part consists of several research papers on recent advances in the area and some survey articles of an expository character The articles in this second part are Remarks on weighted mixed norm spaces by O

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The Implicit Function Theorem Steven G. Krantz, Harold R. Parks, 2012-11-26 The implicit function theorem is part of the
 bedrock of mathematical analysis and geometry Finding its genesis in eighteenth century studies of real analytic functions
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 theory this title is intended for the student with a background in real and complex variable theory harmonic analysis and
 differential equations *Lineability* Richard M. Aron, 2015-10-05 Renewed interest in vector spaces and linear algebras has
 spurred the search for large algebraic structures composed of mathematical objects with special properties Bringing

together research that was otherwise scattered throughout the literature

Lineability The Search for Linearity in Mathematics collects the main results on the conditions for

Symmetry Breaking for Compact Lie Groups Mike Field, 1996 This work comprises a general study of symmetry breaking for compact Lie groups in the context of equivariant bifurcation theory We begin by extending the theory developed by Field and Richardson for absolutely irreducible representations of finite groups to general irreducible representations of compact Lie groups while allowing for branches of relative equilibria and phenomena such as the Hopf bifurcation We also present a general theory of determinacy for irreducible Lie group actions We show that branching patterns for generic equivariant bifurcation problems defined on irreducible representations persist under perturbations by sufficiently high order non equivariant terms

Analytic Solutions Of Functional Equations Sui Sun Cheng, Wenrong Li, 2008-03-14 This book presents a self contained and unified introduction to the properties of analytic functions Based on recent research results it provides many examples of functional equations to show how analytic solutions can be found Unlike in other books analytic functions are treated here as those generated by sequences with positive radii of convergence By developing operational means for handling sequences functional equations can then be transformed into recurrence relations or difference equations in a straightforward manner Their solutions can also be found either by qualitative means or by computation The subsequent formal power series function can then be asserted as a true solution once convergence is established by various convergence tests and majorization techniques Functional equations in this book may also be functional differential equations or iterative equations which are different from the differential equations studied in standard textbooks since composition of known or unknown functions are involved

Toeplitz Operators and Random Matrices Estelle Basor, Albrecht Böttcher, Torsten Ehrhardt, Craig A. Tracy, 2023-01-01 This volume is dedicated to the memory of Harold Widom 1932 2021 an outstanding mathematician who has enriched mathematics with his ideas and ground breaking work since the 1950s until the present time It contains a biography of Harold Widom personal notes written by his former students or colleagues and also his last previously unpublished paper on domain walls in a Heisenberg Ising chain Widom s most famous contributions were made to Toeplitz operators and random matrices While his work on random matrices is part of almost all the present day research activities in this field his work in Toeplitz operators and matrices was done mainly before 2000 and is therefore described in a contribution devoted to his achievements in just this area The volume contains 18 invited and refereed research and expository papers on Toeplitz operators and random matrices These present new results or new perspectives on topics related to Widom s work

[The Abel Prize 2013-2017](#) Helge Holden, Ragni Piene, 2019-02-23 The book presents the winners of the Abel Prize in mathematics for the period 2013 17 Pierre Deligne 2013 Yakov G Sinai 2014 John Nash Jr and Louis Nirenberg 2015 Sir Andrew Wiles 2016 and Yves Meyer 2017 The profiles feature autobiographical information as well as a scholarly description of each mathematician s work In addition each profile contains a Curriculum Vitae a complete bibliography and the full citation from the prize committee The book also

includes photos for the period 2003–2017 showing many of the additional activities connected with the Abel Prize. As an added feature, video interviews with the Laureates as well as videos from the prize ceremony are provided at an accompanying website <http://extras.springer.com>. This book follows on *The Abel Prize 2003–2007: The First Five Years* (Springer, 2010) and *The Abel Prize 2008–2012* (Springer, 2014) which profile the work of the previous Abel Prize winners.

Operator Theory in Krein Spaces and Nonlinear Eigenvalue Problems Karl-Heinz Förster, Peter Jonas, Heinz Langer, 2006-03-16. This volume contains a collection of recent original research papers in operator theory in Krein spaces on generalized Nevanlinna functions which are closely connected with this theory and on nonlinear eigenvalue problems. Key topics include spectral theory for normal operators, perturbation theory for self adjoint operators in Krein spaces and models for generalized Nevanlinna functions.

Singularities in Geometry and Topology Jean-Paul Brasselet, 2007. Singularity theory appears in numerous branches of mathematics as well as in many emerging areas such as robotics, control theory, imaging and various evolving areas in physics. The purpose of this proceedings volume is to cover recent developments in singularity theory and to introduce young researchers from developing countries to singularities in geometry and topology. The contributions discuss singularities in both complex and real geometry. As such they provide a natural continuation of the previous school on singularities held at ICTP 1991 which is recognized as having had a major influence in the field.

Contemporary Research in Elliptic PDEs and Related Topics Serena Dipierro, 2019-07-12. This volume collects contributions from the speakers at an INdAM Intensive period held at the University of Bari in 2017. The contributions cover several aspects of partial differential equations whose development in recent years has experienced major breakthroughs in terms of both theory and applications. The topics covered include nonlocal equations, elliptic equations and systems, fully nonlinear equations, nonlinear parabolic equations, overdetermined boundary value problems, maximum principles, geometric analysis, control theory, mean field games and bio-mathematics. The authors are trailblazers in these topics and present their work in a way that is exhaustive and clearly accessible to PhD students and early career researcher. As such the book offers an excellent introduction to a variety of fundamental topics of contemporary investigation and inspires novel and high quality research.

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Table of Contents A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions

1. Understanding the eBook A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions
 - The Rise of Digital Reading A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions
 - Advantages of eBooks Over Traditional Books
2. Identifying A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions
 - User-Friendly Interface

4. Exploring eBook Recommendations from A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions
 - Personalized Recommendations
 - A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions User Reviews and Ratings
 - A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions and Bestseller Lists
5. Accessing A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions Free and Paid eBooks
 - A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions Public Domain eBooks
 - A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions eBook Subscription Services
 - A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions Budget-Friendly Options
6. Navigating A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions eBook Formats
 - ePub, PDF, MOBI, and More
 - A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions Compatibility with Devices
 - A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions
 - Highlighting and Note-Taking A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions
 - Interactive Elements A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions
8. Staying Engaged with A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions
9. Balancing eBooks and Physical Books A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions
 - Setting Reading Goals A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions
 - Fact-Checking eBook Content of A Primer Of Real Analytic Functions A Primer Of Real Analytic Functions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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