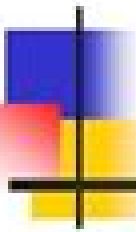


# Numerical detection of complex singularities for functions of two or more variables.



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Prof. Michael Siegel  
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# Numerical Control Over Complex Analytic Singularities

**JE Gale**



## **Numerical Control Over Complex Analytic Singularities:**

**Numerical Control over Complex Analytic Singularities** David B. Massey, 2003 Generalizes the Le cycles and numbers to the case of hyper surfaces inside arbitrary analytic spaces This book defines the Le Vogel cycles and numbers and prove that the Le Vogel numbers control Thom's  $\mu_f$  condition It describes the relationship between the Euler characteristic of the Milnor fibre and the Le Vogel numbers

**Numerical Control Over Complex Analytic Singularities** Christopher Hart, David B. Massey, 2014-09-11 Overview Part I Algebraic Preliminaries Gap Sheaves and Vogel Cycles Introduction Gap sheaves Gap cycles and Vogel cycles The Le Iomdine Vogel formulas Summary of Part I Part II Le Cycles and Hypersurface Singularities Introduction Definitions and basic properties Elementary examples A handle decomposition of the Milnor fibre Generalized Le Iomdine formulas Le numbers and hyperplane arrangements Thom's  $\mu_f$  condition Aligned singularities Suspending singularities Constancy of the Milnor fibrations Another characterization of the Le cycles Part III Isolated Critical Points of Functions on Singular Spaces Introduction Critical avatars The relative polar curve The link between the algebraic and topological points of view The special case of perverse sheaves Thom's  $\mu_f$  condition Continuous families of constructible complexes Part IV Non Isolated Critical Points of Functions on Singular Spaces Introduction Le Vogel cycles Le Iomdine formulas and Thom's condition Le Vogel cycles and the Euler characteristic Appendix A Analytic cycles and intersections Appendix B The derived category Appendix C Privileged neighborhoods and lifting Milnor fibrations References Index

**Real and Complex Singularities** Laurentiu Paunescu, 2007 The modern theory of singularities provides a unifying theme that runs through fields of mathematics as diverse as homological algebra and Hamiltonian systems It is also an important point of reference in the development of a large part of contemporary algebra geometry and analysis Presented by internationally recognized experts the collection of articles in this volume yields a significant cross section of these developments The wide range of surveys includes an authoritative treatment of the deformation theory of isolated complex singularities by prize winning researcher K Miyajima Graduate students and even ambitious undergraduates in mathematics will find many research ideas in this volume and non experts in mathematics can have an overview of some classic and fundamental results in singularity theory The explanations are detailed enough to capture the interest of the curious reader and complete enough to provide the necessary background material needed to go further into the subject and explore the research literature

**Real and Complex Singularities** James William Bruce, Farid Tari, 1999-08-26 The boundaries of singularity theory are broad and vague connecting the most important applications of mathematics and science with more abstract areas Optics robotics computer vision Hamiltonian mechanics bifurcation theory and differential equations are among the variety of topics that benefit from developments in the theory With singularity theory encompassing more and more applications Real and Complex Singularities provides insight into the future of this expanding field Comprising refereed contributions to the Fifth Workshop on Real and Complex Singularities this volume addresses three important areas related

to the broad subject of singularities The first section deals with questions within singularity theory itself representing the topics currently being investigated The second explores applications of singularity theory to differential geometry robotics and computer vision The final section consists of applications to bifurcation theory and dynamical systems With over two hundred tables that provide quick access to data this volume is a complete overview of the most current topics and applications of singularity theory Real and Complex Singularities creates the opportunity for you to stay up to date with recent advances and discover promising directions for future research in the field

**A Panorama of Singularities** Francisco-Jesús Castro-Jiménez, David Bradley Massey, Bernard Teissier, Meral Tosun, 2020-01-13 This volume contains the proceedings of the conference A Panorama on Singular Varieties celebrating the 70th birthday of Lê Dũng Tráng held from February 7-10 2017 at the University of Seville IMUS Seville Spain The articles cover a wide range of topics in the study of singularities and should be of great value to graduate students and research faculty who have a basic background in the theory of singularities

*Representation Theory and Numerical AF-Invariants* Ola Bratteli, Palle E. T. Jørgensen, Vasyly Ostrovs'kyi, 2004 Part A Representation theory Part B Numerical AF invariants Bibliography List of figures List of tables List of terms and symbols

**Infinite Dimensional Complex Symplectic Spaces** William Norrie Everitt, Lawrence Markus, 2004 Complex symplectic spaces are non trivial generalizations of the real symplectic spaces of classical analytical dynamics This title presents a self contained investigation of general complex symplectic spaces and their Lagrangian subspaces regardless of the finite or infinite dimensionality

The Mathematical Legacy of Leon Ehrenpreis Irene Sabadini, Daniele C. Struppa, 2012-04-23 Leon Ehrenpreis has been one of the leading mathematicians in the twentieth century His contributions to the theory of partial differential equations were part of the golden era of PDEs and led him to what is maybe his most important contribution the Fundamental Principle which he announced in 1960 and fully demonstrated in 1970 His most recent work on the other hand focused on a novel and far reaching understanding of the Radon transform and offered new insights in integral geometry Leon Ehrenpreis died in 2010 and this volume collects writings in his honor by a cadre of distinguished mathematicians many of which were his collaborators

Exceptional Vector Bundles, Tilting Sheaves and Tilting Complexes for Weighted Projective Lines Hagen Meltzer, 2004 Deals with weighted projective lines a class of non commutative curves modelled by Geigle and Lenzing on a graded commutative sheaf theory They play an important role in representation theory of finite dimensional algebras the complexity of the classification of coherent sheaves largely depends on the genus of these curves

**The  $\mathbb{R}\mathcal{O}(G)$ -Graded Equivariant Ordinary Homology of  $G$ -Cell Complexes with Even-Dimensional Cells for  $G=\mathbb{Z}/p$** , **Mutually Catalytic Super Branching Random Walks: Large Finite Systems and Renormalization Analysis** J. T. Cox, Jeff Groah, Donald Andrew Dawson, Andreas Greven, 2004 Studies the evolution of the large finite spatial systems in size dependent time scales and compare them with the behavior of the infinite systems which amounts to establishing the so called finite system scheme

This title introduces the concept of a continuum limit in the hierarchical mean field limit

**Quasianalytic Monogenic Solutions of a Cohomological Equation** Stefano Marmi, D. Sauzin, 2003 We prove that the solutions of a cohomological equation of complex dimension one and in the analytic category have a monogenic dependence on the parameter This cohomological equation is the standard linearized conjugacy equation for germs of holomorphic maps in a neighborhood of a fixed point

A Generating Function Approach to the Enumeration of Matrices in Classical Groups over Finite Fields Jason Fulman, P. M. Neumann, Cheryl E. Praeger, 2005 Generating function techniques are used to study the probability that an element of a classical group defined over a finite field is separable cyclic semisimple or regular The limits of these probabilities as the dimension tends to infinity are calculated in all cases and exponential convergence to the limit is proved These results complement and extend earlier results of the authors G E Wall and Guralnick Lubeck

**Topology of Singular Spaces and Constructible Sheaves** Jörg Schürmann, 2012-12-06 Assuming that the reader is familiar with sheaf theory the book gives a self contained introduction to the theory of constructible sheaves related to many kinds of singular spaces such as cell complexes triangulated spaces semialgebraic and subanalytic sets complex algebraic or analytic sets stratified spaces and quotient spaces The relation to the underlying geometrical ideas are worked out in detail together with many applications to the topology of such spaces All chapters have their own detailed introduction containing the main results and definitions illustrated in simple terms by a number of examples The technical details of the proof are postponed to later sections since these are not needed for the applications

**Intersection Homology & Perverse Sheaves** Laurențiu G. Maxim, 2019-11-30 This textbook provides a gentle introduction to intersection homology and perverse sheaves where concrete examples and geometric applications motivate concepts throughout By giving a taste of the main ideas in the field the author welcomes new readers to this exciting area at the crossroads of topology algebraic geometry analysis and differential equations Those looking to delve further into the abstract theory will find ample references to facilitate navigation of both classic and recent literature Beginning with an introduction to intersection homology from a geometric and topological viewpoint the text goes on to develop the sheaf theoretical perspective Then algebraic geometry comes to the fore a brief discussion of constructibility opens onto an in depth exploration of perverse sheaves Highlights from the following chapters include a detailed account of the proof of the Beilinson Bernstein Deligne Gabber BBDG decomposition theorem applications of perverse sheaves to hypersurface singularities and a discussion of Hodge theoretic aspects of intersection homology via Saito's deep theory of mixed Hodge modules An epilogue offers a succinct summary of the literature surrounding some recent applications Intersection Homology Perverse Sheaves is suitable for graduate students with a basic background in topology and algebraic geometry By building context and familiarity with examples the text offers an ideal starting point for those entering the field This classroom tested approach opens the door to further study and to current research

**Generative Complexity in Algebra** Joel Berman, 2005 Considers the behavior of  $G_{\mathcal{A}}$

$C \leq k$  when  $\mathcal{C}$  is a locally finite equational class variety of algebras and  $k$  is finite This title looks at ways that algebraic properties of  $\mathcal{C}$  lead to upper or lower bounds on generative complexity **Classification and Probabilistic**

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The Maximal Subgroups of Positive Dimension in Exceptional Algebraic Groups Martin W. Liebeck, Gary M. Seitz, 2004 Intends to complete the determination of the maximal subgroups of positive dimension in simple algebraic groups of exceptional type over algebraically closed fields This title follows work of Dynkin who solved the problem in characteristic zero and Seitz who did likewise over fields whose characteristic is not too small *Self-Similarity and Multiwavelets in*

*Higher Dimensions* Carlos A Cabrelli, Christopher Heil, Ursula M. Molter, 2004 Let  $A$  be a dilation matrix an  $n$  times  $n$  expansive matrix that maps a full rank lattice  $\Gamma \subset \mathbb{R}^n$  into itself Let  $\Lambda$  be a finite subset of  $\Gamma$  and for  $k \in \Lambda$  let  $c_k$  be  $r$  times  $r$  complex matrix *Methods in the Theory of Hereditarily Indecomposable Banach Spaces* Spiros Argyros, Andreas Tolas, 2004 A general method producing Hereditarily Indecomposable H I Banach spaces is provided We apply this method to construct a nonseparable H I Banach space  $Y$  This space is the dual as well as the second dual of a separable H I Banach space

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