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Desingularization of Nilpotent Singularities in Families of Planar Vector Fields

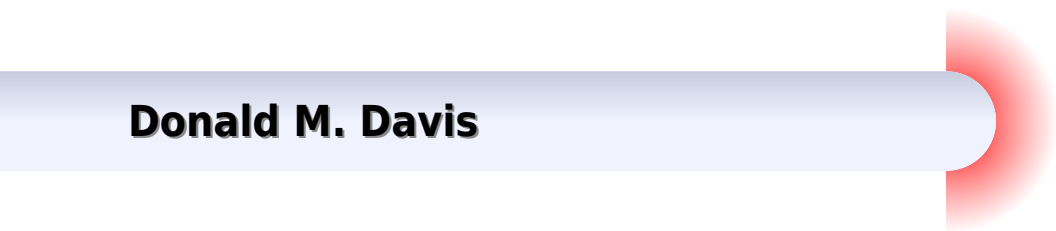
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Desingularization Of Nilpotent Singularities In Families Of Planar Vector Fields

Donald M. Davis



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Desingularization of Nilpotent Singularities in Families of Planar Vector Fields Daniel Panazzolo, 2002 This work aims to prove a desingularization theorem for analytic families of two dimensional vector fields under the hypothesis that all its singularities have a non vanishing first jet Application to problems of singular perturbations and finite cyclicity are discussed in the last chapter

Lecture Notes on O-Minimal Structures and Real Analytic Geometry Chris Miller, Jean-Philippe Rolin, Patrick Speissegger, 2012-09-14 This volume was produced in conjunction with the Thematic Program in o Minimal Structures and Real Analytic Geometry held from January to June of 2009 at the Fields Institute Five of the six contributions consist of notes from graduate courses associated with the program Felipe Cano on a new proof of resolution of singularities for planar analytic vector fields Chris Miller on o minimality and Hardy fields Jean Philippe Rolin on the construction of o minimal structures from quasianalytic classes Fernando Sanz on non oscillatory trajectories of vector fields and Patrick Speissegger on pfaffian sets The sixth contribution by Antongiulio Fornasiero and Tamara Servi is an adaptation to the nonstandard setting of A J Wilkie s construction of o minimal structures from infinitely differentiable functions Most of this material is either unavailable elsewhere or spread across many different sources such as research papers conference proceedings and PhD theses This book will be a useful tool for graduate students or researchers from related fields who want to learn about expansions of o minimal structures by solutions or images thereof of definable systems of differential equations

Bifurcations of Planar Vector Fields and Hilbert's Sixteenth Problem Robert Roussarie, 2013-11-26 In a coherent exhaustive and progressive way this book presents the tools for studying local bifurcations of limit cycles in families of planar vector fields A systematic introduction is given to such methods as division of an analytic family of functions in its ideal of coefficients and asymptotic expansion of non differentiable return maps and desingularisation The exposition moves from classical analytic geometric methods applied to regular limit periodic sets to more recent tools for singular limit sets The methods can be applied to theoretical problems such as Hilbert s 16th problem but also for the purpose of establishing bifurcation diagrams of specific families as well as explicit computations The book as a whole is a well balanced exposition that can be recommended to all those who want to gain a thorough understanding and proficiency in the recently developed methods The book reflecting the current state of the art can also be used for teaching special courses Mathematical Reviews

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 a_f condition It describes the relationship between the Euler characteristic of the Milnor fibre and the Le Vogel numbers

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family of functions in its ideal of coefficients and asymptotic expansion of non differentiable return maps and desingularisation The exposition moves from classical analytic geometric methods applied to regular limit periodic sets to more recent tools for singular limit sets The methods can be applied to theoretical problems such as Hilbert's 16th problem but also for the purpose of establishing bifurcation diagrams of specific families as well as explicit computations

Multiple Time Scale Dynamics Christian Kuehn, 2015-02-25 This book provides an introduction to dynamical systems with multiple time scales The approach it takes is to provide an overview of key areas particularly topics that are less available in the introductory form The broad range of topics included makes it accessible for students and researchers new to the field to gain a quick and thorough overview The first of its kind this book merges a wide variety of different mathematical techniques into a more unified framework The book is highly illustrated with many examples and exercises and an extensive bibliography The target audience of this book are senior undergraduates graduate students as well as researchers interested in using the multiple time scale dynamics theory in nonlinear science either from a theoretical or a mathematical modeling perspective

Uniformizing Dessins and Belyi Maps via Circle Packing Philip L. Bowers, Kenneth Stephenson, 2004 Introduction Dessins d'enfants Discrete Dessins via circle packing Uniformizing Dessins A menagerie of Dessins d'enfants Computational issues Additional constructions Non equilateral triangulations The discrete option Appendix Implementation Bibliography

Methods in the Theory of Hereditarily Indecomposable Banach Spaces Spiros Argyros, Andreas Tzolis, 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

The Conjugacy Problem and Higman Embeddings Aleksandr Ilyukhin, Ol'shanskii, Mark Sapir, 2004 For every finitely generated recursively presented group G we construct a finitely presented group H containing G such that G is Frattini embedded into H and the group H has solvable conjugacy problem if and only if G has solvable conjugacy problem

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 Λ be a finite subset of Γ and for $k \in \Lambda$ let c_k be r times r complex numbers

From Representation Theory to Homotopy Groups Donald M. Davis, 2002 A formula for the odd primary v_1 periodic homotopy groups of a finite H space in terms of its K theory and Adams operations has been obtained by Bousfield This work applies this theorem to give explicit determinations of the v_1 periodic homotopy groups of E_8 5 and E_8 3 thus completing the determination of all odd primary v_1 periodic homotopy groups of all compact simple Lie groups a project suggested by Mimura in 1989

The Connective K-Theory of Finite Groups Robert Ray Bruner, John Patrick Campbell Greenlees, 2003 Includes a paper that deals the connective K homology and cohomology of finite groups G This title uses the methods of algebraic geometry to study the ring ku DEGREES BG where ku denotes connective complex K theory It

describes the variety in terms of the category of abelian p subgroups of G for primes p dividing the group

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

Dualities on Generalized Koszul Algebras Edward L. Green, Idun Reiten, Øyvind Solberg, 2002 Koszul rings are graded rings which have played an important role in algebraic topology noncommutative algebraic geometry and in the theory of quantum groups One aspect of the theory is to compare the module theory for a Koszul ring and its Koszul dual There are dualities between subcategories of graded modules the Koszul modules

Extending Intersection Homology Type Invariants to Non-Witt Spaces Markus Banagl, 2002 Intersection homology theory provides a way to obtain generalized Poincare duality as well as a signature and characteristic classes for singular spaces For this to work one has had to assume however that the space satisfies the so called Witt condition We extend this approach to constructing invariants to spaces more general than Witt spaces

The \$AB\$ Program in Geometric Analysis: Sharp Sobolev Inequalities and Related Problems Olivier Druet, Emmanuel Hebey, 2002 Function theory and Sobolev inequalities have been the target of investigation for many years Sharp constants in these inequalities constitute a critical tool in geometric analysis The AB programme is concerned with sharp Sobolev inequalities on compact Riemannian manifolds This text summarizes the results of contemporary research and gives an up to date report on the field

Dynamics of Topologically Generic Homeomorphisms Ethan Akin, Mike Hurley, Judy Anita Kennedy, 2003 The goal of this work is to describe the dynamics of generic homeomorphisms of certain compact metric spaces X Here generic is used in the topological sense a property of homeomorphisms on X is generic if the set of homeomorphisms with the property contains a residual subset in the sense of Baire category of the space of all homeomorphisms on X The spaces X we consider are those with enough local homogeneity to allow certain localized perturbations of homeomorphisms for example any compact manifold is such a space We show that the dynamics of a generic homeomorphism is quite complicated with a number of distinct dynamical behaviors coexisting some resemble subshifts of finite type others which we call generalized adding machines appear strictly periodic when viewed to any finite precision but are not actually periodic Such a homeomorphism has infinitely many intricately nested attractors and repellers and uncountably many distinct dynamically connected components of the chain recurrent set We single out several types of these chain components and show that each type occurs densely in an appropriate sense in the chain recurrent set We also identify one type that occurs generically in the chain recurrent set We also show that at least for X a manifold the chain recurrent set of a generic homeomorphism is a Cantor set so its complement is open and dense Somewhat surprisingly there is a residual subset of X consisting of points whose limit sets are chain components of a type other than the type of chain components that are residual in the space of all chain

components In fact for each generic homeomorphism on X there is a residual subset of points of X satisfying a stability condition stronger than Lyapunov stability

On Central Critical Values of the Degree Four L -functions for $\mathrm{GSp}(4)$: The Fundamental Lemma Masaaki Furusawa, Joseph A. Shalika, 2003 Proves two equalities of local Kloosterman integrals on $\mathrm{GSp}(4)$ the group of 4 by 4 symplectic similitude matrices This book conjectures that both of Jacquet's relative trace formulas for the central critical values of the L functions for $\mathrm{GSp}(2)$ in J_1 and J_2

The Role of the Spectrum in the Cyclic Behavior of Composition Operators Eva A. Gallardo-Gutiérrez, Alfonso Montes-Rodríguez, 2004 Introduction and preliminaries Linear fractional maps with an interior fixed point Non elliptic automorphisms The parabolic non automorphism Supercyclic linear fractional composition operators Endnotes Bibliography

Equivariant Orthogonal Spectra and S -Modules M. A. Mandell, J. Peter May, 2002 The last few years have seen a revolution in our understanding of the foundations of stable homotopy theory Many symmetric monoidal model categories of spectra whose homotopy categories are equivalent to the stable homotopy category are now known whereas no such categories were known before 1993 The most well known examples are the category of S modules and the category of symmetric spectra We focus on the category of orthogonal spectra which enjoys some of the best features of S modules and symmetric spectra and which is particularly well suited to equivariant generalization We first complete the nonequivariant theory by comparing orthogonal spectra to S modules We then develop the equivariant theory For a compact Lie group G we construct a symmetric monoidal model category of orthogonal G spectra whose homotopy category is equivalent to the classical stable homotopy category of G spectra We also complete the theory of S_G modules and compare the categories of orthogonal G spectra and S_G modules A key feature is the analysis of change of universe change of group fixed point and orbit functors in these two highly structured categories for the study of equivariant stable homotopy theory

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