

# Algebraic Groups and Differential Galois Theory

**Teresa Crespo**  
**Zbigniew Hajto**

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# Algebraic Groups And Differential Galois Theory

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**University of Chicago**

## **Algebraic Groups And Differential Galois Theory Graduate Studies In Mathematics:**

**Algebraic Groups and Differential Galois Theory** Teresa Crespo, Zbigniew Hajto, 2011 Differential Galois theory has seen intense research activity during the last decades in several directions elaboration of more general theories computational aspects model theoretic approaches applications to classical and quantum mechanics as well as to other mathematical areas such as number theory This book intends to introduce the reader to this subject by presenting Picard Vessiot theory i.e. Galois theory of linear differential equations in a self-contained way The needed prerequisites from algebraic geometry and algebraic groups are contained in the first two parts of the book The third part includes Picard Vessiot extensions the fundamental theorem of Picard Vessiot theory solvability by quadratures Fuchsian equations monodromy group and Kovacic's algorithm Over one hundred exercises will help to assimilate the concepts and to introduce the reader to some topics beyond the scope of this book This book is suitable for a graduate course in differential Galois theory The last chapter contains several suggestions for further reading encouraging the reader to enter more deeply into different topics of differential Galois theory or related fields

### **Differential Galois Theory through Riemann-Hilbert Correspondence**

Jacques Sauloy, 2016-12-07 Differential Galois theory is an important fast developing area which appears more and more in graduate courses since it mixes fundamental objects from many different areas of mathematics in a stimulating context For a long time the dominant approach usually called Picard Vessiot Theory was purely algebraic This approach has been extensively developed and is well covered in the literature An alternative approach consists in tagging algebraic objects with transcendental information which enriches the understanding and brings not only new points of view but also new solutions It is very powerful and can be applied in situations where the Picard Vessiot approach is not easily extended This book offers a hands on transcendental approach to differential Galois theory based on the Riemann-Hilbert correspondence Along the way it provides a smooth down to earth introduction to algebraic geometry category theory and tannakian duality Since the book studies only complex analytic linear differential equations the main prerequisites are complex function theory linear algebra and an elementary knowledge of groups and of polynomials in many variables A large variety of examples exercises and theoretical constructions often via explicit computations offers first year graduate students an accessible entry into this exciting area

[Galois Theory of Linear Differential Equations](#) Marius van der Put, Michael F. Singer, 2003-01-21 From the reviews This is a great book which will hopefully become a classic in the subject of differential Galois theory the specialist as well as the novice have long been missing an introductory book covering also specific and advanced research topics This gap is filled by the volume under review and more than satisfactorily Mathematical Reviews

[Lectures on Differential Galois Theory](#) Andy R. Magid, 1994 Differential Galois theory studies solutions of differential equations over a differential base field In much the same way that ordinary Galois theory is the theory of field extensions generated by solutions of one variable polynomial equations differential Galois theory looks at the nature of the differential

field extension generated by the solution of differential equations An additional feature is that the corresponding differential Galois groups of automorphisms of the extension fixing the base and commuting with the derivation are algebraic groups This book deals with the differential Galois theory of linear homogeneous differential equations whose differential Galois groups are algebraic matrix groups In addition to providing a convenient path to Galois theory this approach also leads to the constructive solution of the inverse problem of differential Galois theory for various classes of algebraic groups Providing a self contained development and many explicit examples this book provides a unique approach to differential Galois theory and is suitable as a textbook at the advanced graduate level

*Anti-Differentiation and the Calculation of Feynman Amplitudes* Johannes Blümlein,Carsten Schneider,2021-11-26 This volume comprises review papers presented at the Conference on Antidifferentiation and the Calculation of Feynman Amplitudes held in Zeuthen Germany in October 2020 and a few additional invited reviews The book aims at comprehensive surveys and new innovative results of the analytic integration methods of Feynman integrals in quantum field theory These methods are closely related to the field of special functions and their function spaces the theory of differential equations and summation theory Almost all of these algorithms have a strong basis in computer algebra The solution of the corresponding problems are connected to the analytic management of large data in the range of Giga to Terabytes The methods are widely applicable to quite a series of other branches of mathematics and theoretical physics

[Galois Theories of Linear Difference Equations: An Introduction](#) Charlotte Hardouin,Jacques Sauloy,Michael F. Singer,2016-04-27 This book is a collection of three introductory tutorials coming out of three courses given at the CIMPA Research School Galois Theory of Difference Equations in Santa Marta Columbia July 23 August 1 2012 The aim of these tutorials is to introduce the reader to three Galois theories of linear difference equations and their interrelations Each of the three articles addresses a different galoisian aspect of linear difference equations The authors motivate and give elementary examples of the basic ideas and techniques providing the reader with an entry to current research In addition each article contains an extensive bibliography that includes recent papers the authors have provided pointers to these articles allowing the interested reader to explore further

**Divergent Series, Summability and Resurgence I** Claude Mitschi,David Sauzin,2016-08-27 Providing an elementary introduction to analytic continuation and monodromy the first part of this volume applies these notions to the local and global study of complex linear differential equations their formal solutions at singular points their monodromy and their differential Galois groups The Riemann Hilbert problem is discussed from Bolibrukh s point of view The second part expounds 1 summability and Ecalle s theory of resurgence under fairly general conditions It contains numerous examples and presents an analysis of the singularities in the Borel plane via alien calculus which provides a full description of the Stokes phenomenon for linear or non linear differential or difference equations The first of a series of three entitled Divergent Series Summability and Resurgence this volume is aimed at graduate students mathematicians and theoretical physicists interested in geometric

algebraic or local analytic properties of dynamical systems It includes useful exercises with solutions The prerequisites are a working knowledge of elementary complex analysis and differential algebra [Galois Theory, Rings, Algebraic Groups and Their Applications](#) Simeon Ivanov,1992 This collection consists of original work on Galois theory rings and algebras algebraic geometry group representations algebraic K theory and some of their applications [Differential Algebra and Related Topics](#) Li Guo,2002 Differential algebra explores properties of solutions of systems of ordinary or partial linear or non linear differential equations from an algebraic point of view It includes as special cases algebraic systems as well as differential systems with algebraic constraints This algebraic theory of Joseph F Ritt and Ellis R Kolchin is further enriched by its interactions with algebraic geometry Diophantine geometry differential geometry model theory control theory automatic theorem proving combinatorics and difference equations Differential algebra now plays an important role in computational methods such as symbolic integration and symmetry analysis of differential equations These proceedings consist of tutorial and survey papers presented at the Second International Workshop on Differential Algebra and Related Topics at Rutgers University Newark in April 2007 As a sequel to the proceedings of the First International Workshop this volume covers more related subjects and provides a modern and introductory treatment to many facets of differential algebra including surveys of known results open problems and new emerging directions of research It is therefore an excellent companion and reference text for graduate students and researchers **Galois Groups and Fundamental Groups** Leila Schneps,2003-07-21 Table of contents [Differential Algebra And Related Topics - Proceedings Of The International Workshop](#) Phyllis J Cassidy,Li Guo,William F Keigher,William Y Sit,2002-05-30 Differential algebra explores properties of solutions to systems of ordinary or partial linear or nonlinear differential equations from an algebraic point of view It includes as special cases algebraic systems as well as differential systems with algebraic constraints This algebraic theory of Joseph F Ritt and Ellis R Kolchin is further enriched by its interactions with algebraic geometry Diophantine geometry differential geometry model theory control theory automatic theorem proving combinatorics and difference equations Differential algebra now plays an important role in computational methods such as symbolic integration and symmetry analysis of differential equations This volume includes tutorial and survey papers presented at workshop

[Basic Modern Theory of Linear Complex Analytic \\$q\\$-Difference Equations](#) Jacques Sauloy,2024-11-06 The roots of the modern theories of differential and q difference equations go back in part to an article by George D Birkhoff published in 1913 dealing with the three sister theories of differential difference and q difference equations This book is about q difference equations and focuses on techniques inspired by differential equations in line with Birkhoff s work as revived over the last three decades It follows the approach of the Ramis school mixing algebraic and analytic methods While it uses some q calculus and is illustrated by q special functions these are not its main subjects After a gentle historical introduction with emphasis on mathematics and a thorough study of basic problems such as elementary q functions elementary q calculus and low order equations a detailed algebraic and

analytic study of scalar equations is followed by the usual process of transforming them into systems and back again The structural algebraic and analytic properties of systems are then described using q difference modules Newton polygon filtration by the slopes The final chapters deal with Fuchsian and irregular equations and systems including their resolution classification Riemann Hilbert correspondence and Galois theory Nine appendices complete the book and aim to help the reader by providing some fundamental yet not universally taught facts There are 535 exercises of various styles and levels of difficulty The main prerequisites are general algebra and analysis as taught in the first three years of university The book will be of interest to expert and non expert researchers as well as graduate students in mathematics and physics *A Course in Computational Algebraic Number Theory* Henri Cohen,1993 Describes 148 algorithms that are fundamental for number theoretic computations including computations related to algebraic number theory elliptic curves primality testing and factoring A complete theoretical introduction is given for each subject reducing prerequisites to a minimum The detailed description of each algorithm allows immediate *Nagoya Mathematical Journal* ,1996 Peterson's Guide to Graduate Programs in the Physical Sciences and Mathematics ,1991 **Bulletin of Information** University of Chicago,1901

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