

EMS Series of Lectures in Mathematics

Torsten Ekedahl

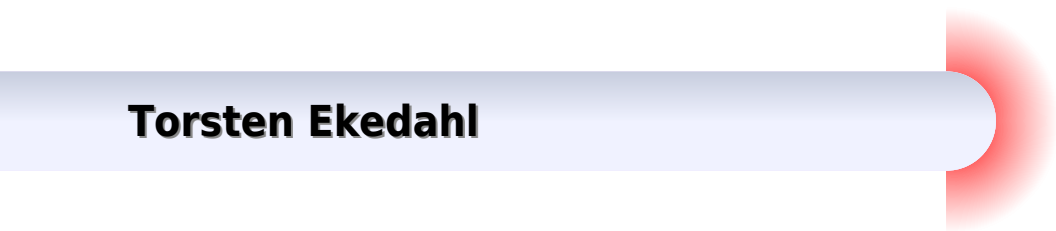
One Semester of Elliptic Curves



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One Semester Of Elliptic Curves Ems Series Of Lectures In Mathematics

Torsten Ekedahl



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ONE SEMESTER OF ELLIPTIC CURVES. TORSTEN EKEDAH., One Semester of Elliptic Curves Torsten

Ekedahl,2006 These lecture notes grew out of a one semester introductory course on elliptic curves given to an audience of computer science and mathematics students and assume only minimal background knowledge After having covered basic analytic and algebraic aspects putting special emphasis on explaining the interplay between algebraic and analytic formulas they go on to some more specialized topics These include the j function from an algebraic and analytic perspective a discussion of elliptic curves over finite fields derivation of recursion formulas for the division polynomials the algebraic structure of the torsion points of an elliptic curve complex multiplication and modular forms In an effort to motivate basic problems the book starts very slowly but considers some aspects such as modular forms of higher level which are not usually treated It presents more than 100 exercises and a Mathematica TM notebook that treats a number of calculations involving elliptic curves The book is aimed at students of mathematics with a general interest in elliptic curves but also at students of computer science interested in their cryptographic aspects **Lectures on Differential Geometry** Iskander Asanovich

Taïmanov,2008 Differential geometry studies geometrical objects using analytical methods Like modern analysis itself differential geometry originates in classical mechanics For instance geodesics and minimal surfaces are defined via variational principles and the curvature of a curve is easily interpreted as the acceleration with respect to the path length parameter Modern differential geometry in its turn strongly contributed to modern physics This book gives an introduction to the basics of differential geometry keeping in mind the natural origin of many geometrical quantities as well as the applications of differential geometry and its methods to other sciences The text is divided into three parts The first part covers the basics of curves and surfaces while the second part is designed as an introduction to smooth manifolds and Riemannian geometry In particular Chapter 5 contains short introductions to hyperbolic geometry and geometrical principles of special relativity theory Here only a basic knowledge of algebra calculus and ordinary differential equations is required The third part is more advanced and introduces into matrix Lie groups and Lie algebras the representation theory of groups symplectic and Poisson geometry and applications of complex analysis in surface theory The book is based on lectures the author held regularly at Novosibirsk State University It is addressed to students as well as anyone who wants to learn the basics of differential geometry *Lectures on Gaussian Integral Operators and Classical Groups* Yu. A. Neretin,2011 This

book is an elementary self contained introduction to some constructions of representation theory and related topics of differential geometry and analysis Topics covered include the theory of various Fourier like integral operators such as Segal Bargmann transforms Gaussian integral operators in L^2 and in the Fock space integral operators with theta kernels the geometry of real and p adic classical groups and symmetric spaces The heart of the book is the Weil representation of the symplectic group real and complex realizations relations with theta functions and modular forms p adic and adelic

constructions and representations in Hilbert spaces of holomorphic functions of several complex variables This book is addressed to graduate students and researchers in representation theory differential geometry and operator theory
 Prerequisites are standard university courses in linear algebra functional analysis and complex analysis **Lectures on Duflo Isomorphisms in Lie Algebra and Complex Geometry** Damien Calaque, Carlo Antonio Rossi, 2011 The Duflo isomorphism first appeared in Lie theory and representation theory It is an isomorphism between invariant polynomials of a Lie algebra and the center of its universal enveloping algebra generalizing the pioneering work of Harish Chandra on semi simple Lie algebras Kontsevich later refined Duflo's result in the framework of deformation quantization and also observed that there is a similar isomorphism between Dolbeault cohomology of holomorphic polyvector fields on a complex manifold and its Hochschild cohomology This book which arose from a series of lectures by Damien Calaque at ETH derives these two isomorphisms from a Duflo type result for Q manifolds All notions mentioned above are introduced and explained in this book The only prerequisites are basic linear algebra and differential geometry In addition to standard notions such as Lie super algebras complex manifolds Hochschild and Chevalley Eilenberg cohomologies spectral sequences Atiyah and Todd classes the graphical calculus introduced by Kontsevich in his seminal work on deformation quantization is addressed in detail This book is well suited for graduate students in mathematics and mathematical physics as well as researchers working in Lie theory algebraic geometry and deformation theory Lectures on Algebraic Topology Sergei Vladimirovich Matveev, 2006 Algebraic topology is the study of the global properties of spaces by means of algebra It is an important branch of modern mathematics with a wide degree of applicability to other fields including geometric topology differential geometry functional analysis differential equations algebraic geometry number theory and theoretical physics This book provides an introduction to the basic concepts and methods of algebraic topology for the beginner It presents elements of both homology theory and homotopy theory and includes various applications The author's intention is to rely on the geometric approach by appealing to the reader's own intuition to help understanding The numerous illustrations in the text also serve this purpose Two features make the text different from the standard literature first special attention is given to providing explicit algorithms for calculating the homology groups and for manipulating the fundamental groups Second the book contains many exercises all of which are supplied with hints or solutions This makes the book suitable for both classroom use and for independent study *Differential Geometry, Differential Equations, and Special Functions* Galina Filipuk, Andrzej Kozłowski, 2022-04-19 This book is devoted to applications differential equations elements of special functions and differential geometry of curves and surfaces with a specific focus on visualization in Mathematica Discusses how Mathematica can be used as an aid in solving mathematical problems and discovering a solution A complete tutorial provides the background needed for understanding the examples and how to compute in Mathematica **A Course in Complex Analysis and Riemann Surfaces** Wilhelm Schlag, 2014-08-06 Complex analysis is a cornerstone of mathematics making it an essential element of

any area of study in graduate mathematics Schlag's treatment of the subject emphasizes the intuitive geometric underpinnings of elementary complex analysis that naturally lead to the theory of Riemann surfaces The book begins with an exposition of the basic theory of holomorphic functions of one complex variable The first two chapters constitute a fairly rapid but comprehensive course in complex analysis The third chapter is devoted to the study of harmonic functions on the disk and the half plane with an emphasis on the Dirichlet problem Starting with the fourth chapter the theory of Riemann surfaces is developed in some detail and with complete rigor From the beginning the geometric aspects are emphasized and classical topics such as elliptic functions and elliptic integrals are presented as illustrations of the abstract theory The special role of compact Riemann surfaces is explained and their connection with algebraic equations is established The book concludes with three chapters devoted to three major results the Hodge decomposition theorem the Riemann Roch theorem and the uniformization theorem These chapters present the core technical apparatus of Riemann surface theory at this level This text is intended as a detailed yet fast paced intermediate introduction to those parts of the theory of one complex variable that seem most useful in other areas of mathematics including geometric group theory dynamics algebraic geometry number theory and functional analysis More than seventy figures serve to illustrate concepts and ideas and the many problems at the end of each chapter give the reader ample opportunity for practice and independent study

Mathematical Foundations of Supersymmetry Claudio Carmeli, Lauren Caston, Rita Fioresi, 2011 Supersymmetry is a highly active area of considerable interest among physicists and mathematicians It is not only fascinating in its own right but there is also indication that it plays a fundamental role in the physics of elementary particles and gravitation The purpose of the book is to lay down the foundations of the subject providing the reader with a comprehensive introduction to the language and techniques as well as detailed proofs and many clarifying examples This book is aimed ideally at second year graduate students After the first three introductory chapters the text is divided into two parts the theory of smooth supermanifolds and Lie supergroups including the Frobenius theorem and the theory of algebraic superschemes and supergroups There are three appendices The first introduces Lie superalgebras and representations of classical Lie superalgebras the second collects some relevant facts on categories sheafification of functors and commutative algebra and the third explains the notion of Frechet space in the super context

An Introduction to Noncommutative Geometry Joseph C. Várilly, 2006 Noncommutative geometry inspired by quantum physics describes singular spaces by their noncommutative coordinate algebras and metric structures by Dirac like operators Such metric geometries are described mathematically by Connes theory of spectral triples These lectures delivered at an EMS Summer School on noncommutative geometry and its applications provide an overview of spectral triples based on examples This introduction is aimed at graduate students of both mathematics and theoretical physics It deals with Dirac operators on spin manifolds noncommutative tori Moyal quantization and tangent groupoids action functionals and isospectral deformations The structural framework is the concept

of a noncommutative spin geometry the conditions on spectral triples which determine this concept are developed in detail The emphasis throughout is on gaining understanding by computing the details of specific examples The book provides a middle ground between a comprehensive text and a narrowly focused research monograph It is intended for self study enabling the reader to gain access to the essentials of noncommutative geometry New features since the original course are an expanded bibliography and a survey of more recent examples and applications of spectral triples

"Moonshine" of Finite Groups Koichiro Harada, 2010 This is an almost verbatim reproduction of the author's lecture notes written in 1983-84 at Ohio State University Columbus A substantial update is given in the bibliography Over the last 20 plus years there has been energetic activity in the field of finite simple group theory related to the monster simple group Most notably influential works have been produced in the theory of vertex operator algebras from research that was stimulated by the moonshine of the finite groups Still we can ask the same questions now that we did 30-40 years ago What is the monster simple group Is it really related to the theory of the universe as it was vaguely so envisioned What lies behind the moonshine phenomena of the monster group It may appear that we have only scratched the surface These notes are primarily reproduced for the benefit of readers who wish to start learning about modular functions used in moonshine

A Course on Elation Quadrangles Koen Thas, 2012 The notion of elation generalized quadrangle is a natural generalization to the theory of generalized quadrangles of the important notion of translation planes in the theory of projective planes Almost any known class of finite generalized quadrangles can be constructed from a suitable class of elation quadrangles In this book the author considers several aspects of the theory of elation generalized quadrangles Special attention is given to local Moufang conditions on the foundational level exploring for instance Knarr's question from the 1990s concerning the very notion of elation quadrangles All the known results on Kantor's prime power conjecture for finite elation quadrangles are gathered some of them published here for the first time The structural theory of elation quadrangles and their groups is heavily emphasized Other related topics such as p-modular cohomology Heisenberg groups and existence problems for certain translation nets are briefly touched This book starts from scratch and is essentially self-contained Many alternative proofs are given for known theorems This course contains dozens of exercises at various levels from very easy to rather difficult and will stimulate undergraduate and graduate students to enter the fascinating and rich world of elation quadrangles More accomplished mathematicians will find the final chapters especially challenging

Basic Noncommutative Geometry Masoud Khalkhali, 2009 Basic Noncommutative Geometry provides an introduction to noncommutative geometry and some of its applications The book can be used either as a textbook for a graduate course on the subject or for self study It will be useful for graduate students and researchers in mathematics and theoretical physics and all those who are interested in gaining an understanding of the subject One feature of this book is the wealth of examples and exercises that help the reader to navigate through the subject While background material is provided in the text and in several appendices some familiarity with basic notions of functional

analysis algebraic topology differential geometry and homological algebra at a first year graduate level is helpful Developed by Alain Connes since the late 1970s noncommutative geometry has found many applications to long standing conjectures in topology and geometry and has recently made headways in theoretical physics and number theory The book starts with a detailed description of some of the most pertinent algebra geometry correspondences by casting geometric notions in algebraic terms then proceeds in the second chapter to the idea of a noncommutative space and how it is constructed The last two chapters deal with homological tools cyclic cohomology and Connes Chern characters in K theory and K homology culminating in one commutative diagram expressing the equality of topological and analytic index in a noncommutative setting Applications to integrality of noncommutative topological invariants are given as well Publisher's description

Splitting Methods for Partial Differential Equations with Rough Solutions Helge Holden, 2010 Operator splitting or the fractional steps method is a very common tool to analyze nonlinear partial differential equations both numerically and analytically By applying operator splitting to a complicated model one can often split it into simpler problems that can be analyzed separately In this book one studies operator splitting for a family of nonlinear evolution equations including hyperbolic conservation laws and degenerate convection diffusion equations Common for these equations is the prevalence of rough or non smooth solutions e.g. shocks Rigorous analysis is presented showing that both semi discrete and fully discrete splitting methods converge For conservation laws sharp error estimates are provided and for convection diffusion equations one discusses a priori and a posteriori correction of entropy errors introduced by the splitting Numerical methods include finite difference and finite volume methods as well as front tracking The theory is illustrated by numerous examples There is a dedicated Web page that provides MATLAB codes for many of the examples The book is suitable for graduate students and researchers in pure and applied mathematics physics and engineering

Differential Harnack Inequalities and the Ricci Flow Reto Müller, 2006 The text is a self contained modern introduction to the Ricci flow and the analytic methods to study it It is primarily addressed to students who have a basic introductory knowledge of analysis and of Riemannian geometry and who are attracted to further study in geometric analysis No previous knowledge of differential Harnack inequalities or the Ricci flow is required **BOOK JACKET** *Faber Systems and Their Use in Sampling, Discrepancy, Numerical Integration* Hans Triebel, 2012 This book deals first with Haar bases Faber bases and Faber frames for weighted function spaces on the real line and the plane It extends results in the author's book *Bases in Function Spaces* Sampling Discrepancy Numerical Integration EMS 2010 from unweighted spaces preferably in cubes to weighted spaces The obtained assertions are used to study sampling and numerical integration in weighted spaces on the real line and weighted spaces with dominating mixed smoothness in the plane A short chapter deals with the discrepancy for spaces on intervals

Finite Generalized Quadrangles Stanley E. Payne, Joseph Adolf Thas, 2009 Generalized quadrangles GQ were formally introduced by J Tits in 1959 to describe geometric properties of simple groups of Lie type of rank 2 The first edition of *Finite Generalized*

Quadrangles FGQ quickly became the standard reference for finite GQ The second edition is essentially a reprint of the first edition It is a careful rendering into LaTeX of the original along with an appendix that brings to the attention of the reader those major new results pertaining to GQ especially in those areas where the authors of this work have made a contribution The first edition has been out of print for many years The new edition makes available again this classical reference in the rapidly increasing field of finite geometries

Wavelets, Their Friends, and what They Can Do for You Martin J. Mohlenkamp, María Cristina Pereyra, 2008 These notes introduce the central concepts surrounding wavelets and their applications By focusing on the essential ideas and arguments the authors enable readers to get to the heart of the matter as quickly as possible A list of references guides readers interested in further study to the appropriate places in the literature for detailed proofs and real applications The authors begin with the notion of time frequency analysis present the multiresolution analysis and basic wavelet construction introduce the many friends relatives and mutations of wavelets and finally give a selection of applications This book is suitable for beginning graduate students and above A preliminary chapter containing some of the prerequisite concepts and definitions is included for reference

Bulletin ,2006 *Journal of analysis and its applications* ,2006

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