Algebraic Geometry and Arithmetic Curves

QING LIU

Algebraic Geometry And Arithmetic Curves By Qing Liu

Stanisław Goldstein,Louis Labuschagne

Algebraic Geometry And Arithmetic Curves By Qing Liu:

Algebraic Geometry and Arithmetic Curves Qing Liu,Reinie Erne,2006-06-29 This book is a general introduction to the theory of schemes followed by applications to arithmetic surfaces and to the theory of reduction of algebraic curves The first part introduces basic objects such as schemes morphisms base change local properties normality regularity Zariski s Main Theorem This is followed by the more global aspect coherent sheaves and a finiteness theorem for their cohomology groups Then follows a chapter on sheaves of differentials dualizing sheaves and Grothendieck s duality theory The first part ends with the theorem of Riemann Roch and its application to the study of smooth projective curves over a field Singular curves are treated through a detailed study of the Picard group The second part starts with blowing ups and desingularisation embedded or not of fibered surfaces over a Dedekind ring that leads on to intersection theory on arithmetic surfaces Castelnuovo s criterion is proved and also the existence of the minimal regular model This leads to the study of reduction of algebraic curves The case of elliptic curves is studied in detail The book concludes with the funadmental theorem of stable reduction of Deligne Mumford The book is essentially self contained including the necessary material on commutative algebra The prerequisites are therefore few and the book should suit a graduate student It contains many examples and nearly 600 exercises   Algebraic Geometry and Arithmetic Curves Qing Liu,2006   An Introduction to Algebraic Geometry and Algebraic Groups Meinolf Geck,2003-11-13 An accessible text introducing algebraic groups at advanced undergraduate and early graduate level this book covers the conjugacy of Borel subgroups and maximal tori the theory of algebraic groups with a BN pair Frobenius maps on affine varieties and algebraic groups zeta functions and Lefschetz numbers for varieties over finite fields The text contains numerous examples and proofs along with exercises and hints   Categories for Quantum Theory Chris Heunen,Jamie Vicary,2019-11-14 Monoidal category theory serves as a powerful framework for describing logical aspects of quantum theory giving an abstract language for parallel and sequential composition and a conceptual way to understand many high level quantum phenomena This text lays the foundation for this categorical quantum mechanics with an emphasis on the graphical calculus which makes computation intuitive Biproducts and dual objects are introduced and used to model superposition and entanglement with quantum teleportation studied abstractly using these structures Monoids Frobenius structures and Hopf algebras are described and it is shown how they can be used to model classical information and complementary observables The CP construction a categorical tool to describe probabilistic quantum systems is also investigated The last chapter introduces higher categories surface diagrams and 2 Hilbert spaces and shows how the language of duality in monoidal 2 categories can be used to reason about quantum protocols including quantum teleportation and dense coding Prior knowledge of linear algebra quantum information or category theory would give an ideal background for studying this text but it is not assumed with essential background material given in a self contained introductory chapter Throughout the text links with many other areas are highlighted such

as representation theory topology quantum algebra knot theory and probability theory and nonstandard models are presented such as sets and relations All results are stated rigorously and full proofs are given as far as possible making this book an invaluable reference for modern techniques in quantum logic with much of the material not available in any other textbook   Local and Global Methods in Algebraic Geometry Nero Budur,Tommaso de Fernex,Roi Docampo,Kevin Tucker,2018-07-26 This volume contains the proceedings of the conference Local and Global Methods in Algebraic Geometry held from May 12 15 2016 at the University of Illinois at Chicago in honor of Lawrence Ein s 60th birthday The articles cover a broad range of topics in algebraic geometry and related fields including birational geometry and moduli theory analytic and positive characteristic methods geometry of surfaces singularity theory hyper K hler geometry rational points and rational curves   **Solitons, Instantons, and Twistors** Professor of Mathematical Physics Maciej Dunajski,2024-07-15 The book provides a self contained and accessible introduction to integrable systems It starts with an introduction to integrability of ordinary and partial differential equations and goes on to explore symmetry analysis gauge theory vortices gravitational instantons twistor transforms and anti self duality equations   *Buildings, Finite Geometries and Groups* N.S. Narasimha Sastry,2011-11-13 This is the Proceedings of the ICM 2010 Satellite Conference on Buildings Finite Geometries and Groups organized at the Indian Statistical Institute Bangalore during August 29 31 2010 This is a collection of articles by some of the currently very active research workers in several areas related to finite simple groups Chevalley groups and their generalizations theory of buildings finite incidence geometries modular representations Lie theory etc These articles reflect the current major trends in research in the geometric and combinatorial aspects of the study of these groups The unique perspective the authors bring in their articles on the current developments and the major problems in their area is expected to be very useful to research mathematicians graduate students and potential new entrants to these areas   *Introduction to Modern Analysis* Shmuel Kantorovitz,Ami Viselter,2022 This text is based on lectures given by the author in measure theory functional analysis Banach algebras spectral theory of bounded and unbounded operators semigroups of operators probability and mathematical statistics and partial differential equations   **Rational Points on Varieties** Bjorn Poonen,2023-08-10 This book is motivated by the problem of determining the set of rational points on a variety but its true goal is to equip readers with a broad range of tools essential for current research in algebraic geometry and number theory The book is unconventional in that it provides concise accounts of many topics instead of a comprehensive account of just one this is intentionally designed to bring readers up to speed rapidly Among the topics included are Brauer groups faithfully flat descent algebraic groups torsors tale and fppf cohomology the Weil conjectures and the Brauer Manin and descent obstructions A final chapter applies all these to study the arithmetic of surfaces The down to earth explanations and the over 100 exercises make the book suitable for use as a graduate level textbook but even experts will appreciate having a single source covering many aspects of geometry over an unrestricted ground field and containing some material that cannot be

found elsewhere The origins of arithmetic or Diophantine geometry can be traced back to antiquity and it remains a lively and wide research domain up to our days The book by Bjorn Poonen a leading expert in the field opens doors to this vast field for many readers with different experiences and backgrounds It leads through various algebraic geometric constructions towards its central subject obstructions to existence of rational points Yuri Manin Max Planck Institute Bonn It is clear that my mathematical life would have been very different if a book like this had been around at the time I was a student Hendrik Lenstra University Leiden Understanding rational points on arbitrary algebraic varieties is the ultimate challenge We have conjectures but few results Poonen s book with its mixture of basic constructions and openings into current research will attract new generations to the Queen of Mathematics Jean Louis Colliot Th l ne Universit Paris Sud A beautiful subject handled by a master Joseph Silverman Brown University *Noncommutative Measures and Lp and Orlicz Spaces, with Applications to Quantum Physics* Stanisław Goldstein,Louis Labuschagne,2025 The theory of noncommutative Haagerup sup sup and Orlicz spaces is an important tool in both Quantum Harmonic Analysis and Mathematical Physics Goldstein and Labuschagne provide a detailed account of the current theories in a way that is useful and accessible to a wide range of readers Operator Theory by Example Stephan Ramon Garcia,Javad Mashreghi,William T. Ross,2023 Aimed at graduate students this textbook provides an accessible and comprehensive introduction to operator theory and covers twenty examples of operators discussing the norm spectrum commutant invariant subspaces and interesting properties of each operator

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