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Donald Knutson

Algebraic Spaces



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Algebraic Spaces Lecture Notes In Mathematics Volume 203

Mahir Bilen Can, Jörg Feldvoss

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Lectures on Logarithmic Algebraic Geometry Arthur Ogus, 2018-11-08 A self contained introduction to logarithmic geometry a key tool for analyzing compactification and degeneration in algebraic geometry **Fundamental Algebraic** Geometry Barbara Fantechi, 2005 Presents an outline of Alexander Grothendieck's theories This book discusses four main themes descent theory Hilbert and Quot schemes the formal existence theorem and the Picard scheme It is suitable for those working in algebraic geometry The Abel Prize 2013-2017 Helge Holden, Ragni Piene, 2019-02-23 The book presents the winners of the Abel Prize in mathematics for the period 2013 17 Pierre Deligne 2013 Yakov G Sinai 2014 John Nash Jr and Louis Nirenberg 2015 Sir Andrew Wiles 2016 and Yves Meyer 2017 The profiles feature autobiographical information as well as a scholarly description of each mathematician s work In addition each profile contains a Curriculum Vitae a complete bibliography and the full citation from the prize committee The book also includes photos for the period 2003 2017 showing many of the additional activities connected with the Abel Prize As an added feature video interviews with the Laureates as well as videos from the prize ceremony are provided at an accompanying website http extras springer com This book follows on The Abel Prize 2003 2007 The First Five Years Springer 2010 and The Abel Prize 2008 2012 Springer 2014 which profile Algebraic Spaces and Stacks Martin Olsson, 2023-09-15 This book is an the work of the previous Abel Prize winners introduction to the theory of algebraic spaces and stacks intended for graduate students and researchers familiar with algebraic geometry at the level of a first year graduate course The first several chapters are devoted to background material including chapters on Grothendieck topologies descent and fibered categories Following this the theory of algebraic spaces and stacks is developed. The last three chapters discuss more advanced topics including the Keel Mori theorem on the existence of coarse moduli spaces gerbes and Brauer groups and various moduli stacks of curves Numerous exercises are included in each chapter ranging from routine verifications to more difficult problems and a glossary of necessary category theory is included as an appendix It is splendid to have a self contained treatment of stacks written by a leading practitioner Finally we have a reference where one can find careful statements and proofs of many of the foundational facts in this important subject Researchers and students at all levels will be grateful to Olsson for writing this book William Fulton University of Michigan This is a carefully planned out book starting with foundations and ending with detailed proofs of key results in the theory of algebraic stacks Johan de Jong Columbia University **Homotopy Theory and Arithmetic** Geometry - Motivic and Diophantine Aspects Frank Neumann, Ambrus Pál, 2021-09-29 This book provides an introduction to state of the art applications of homotopy theory to arithmetic geometry. The contributions to this volume are based on original lectures by leading researchers at the LMS CMI Research School on Homotopy Theory and Arithmetic Geometry Motivic and Diophantine Aspects and the Nelder Fellow Lecturer Series which both took place at Imperial College London in the summer of 2018 The contribution by Brazelton based on the lectures by Wickelgren provides an introduction to

arithmetic enumerative geometry the notes of Cisinski present motivic sheaves and new cohomological methods for intersection theory and Schlank's contribution gives an overview of the use of tale homotopy theory for obstructions to the existence of rational points on algebraic varieties Finally the article by Asok and sty r based in part on the Nelder Fellow lecture series by sty r gives a survey of the interplay between motivic homotopy theory and affine algebraic geometry with a focus on contractible algebraic varieties Now a major trend in arithmetic geometry this volume offers a detailed guide to the fascinating circle of recent applications of homotopy theory to number theory It will be invaluable to research students entering the field as well as postdoctoral and more established researchers Rigid Geometry of Curves and Their **Jacobians** Werner Lütkebohmert, 2016-01-26 This book presents some of the most important aspects of rigid geometry namely its applications to the study of smooth algebraic curves of their Jacobians and of abelian varieties all of them defined over a complete non archimedean valued field The text starts with a survey of the foundation of rigid geometry and then focuses on a detailed treatment of the applications In the case of curves with split rational reduction there is a complete analogue to the fascinating theory of Riemann surfaces In the case of proper smooth group varieties the uniformization and the construction of abelian varieties are treated in detail Rigid geometry was established by John Tate and was enriched by a formal algebraic approach launched by Michel Raynaud It has proved as a means to illustrate the geometric ideas behind the abstract methods of formal algebraic geometry as used by Mumford and Faltings This book should be of great use to students wishing to enter this field as well as those already working in it Snowbird Lectures in Algebraic Geometry Ravi Vakil, 2005 A significant part of the 2004 Summer Research Conference on Algebraic Geometry Snowbird UT was devoted to lectures introducing the participants in particular graduate students and recent Ph D s to a wide swathe of algebraic geometry and giving them a working familiarity with exciting rapidly developing parts of the field One of the main goals of the organizers was to allow the participants to broaden their horizons beyond the narrow area in which they are working A fine selection of topics and a noteworthy list of contributors made the resulting collection of articles a useful resource for everyone interested in getting acquainted with the modern topic of algebraic geometry. The book consists of ten articles covering among others the following topics the minimal model program derived categories of sheaves on algebraic varieties Kobayashi hyperbolicity groupoids and quotients in algebraic geometry rigid analytic varieties and equivariant cohomology Suitable for independent study this unique volume is intended for graduate students and researchers interested in algebraic Combinatorial Aspects of Commutative Algebra and Algebraic Geometry Gunnar Fløystad, Trygve geometry Johnsen, Andreas Leopold Knutsen, 2011-05-16 The Abel Symposium 2009 Combinatorial aspects of Commutative Algebra and Algebraic Geometry held at Voss Norway featured talks by leading researchers in the field This is the proceedings of the Symposium presenting contributions on syzygies tropical geometry Boij S derberg theory Schubert calculus and quiver varieties. The volume also includes an introductory survey on binomial ideals with applications to hypergeometric series

combinatorial games and chemical reactions. The contributions pose interesting problems and offer up to date research on some of the most active fields of commutative algebra and algebraic geometry with a combinatorial flavour Algebra Jörg Feldvoss, Lauren Grimley, Drew Lewis, Andrei Pavelescu, Cornelius Pillen, 2019-02-27 This proceedings volume covers a range of research topics in algebra from the Southern Regional Algebra Conference SRAC that took place in March 2017 Presenting theory as well as computational methods featured survey articles and research papers focus on ongoing research in algebraic geometry ring theory group theory and associative algebras Topics include algebraic groups combinatorial commutative algebra computational methods for representations of groups and algebras group theory Hopf Galois theory hypergroups Lie superalgebras matrix analysis spherical and algebraic spaces and tropical algebraic geometry Since 1988 SRAC has been an important event for the algebra research community in the Gulf Coast Region and surrounding states building a strong network of algebraists that fosters collaboration in research and education This volume is suitable for graduate students and researchers interested in recent findings in computational and theoretical methods in algebra and A Glimpse into Geometric Representation Theory Mahir Bilen Can, Jörg Feldvoss, 2024-08-07 representation theory This volume contains the proceedings of the AMS Special Session on Combinatorial and Geometric Representation Theory held virtually on November 20 21 2021 The articles offer an engaging look into recent advancements in geometric representation theory Despite diverse subject matters a common thread uniting the articles of this volume is the power of geometric methods The authors explore the following five contemporary topics in geometric representation theory equivariant motivic Chern classes equivariant Hirzebruch classes and equivariant Chern Schwartz MacPherson classes of Schubert cells locally semialgebraic spaces Nash manifolds and their superspace counterparts support varieties of Lie superalgebras wreath Macdonald polynomials and equivariant extensions and solutions of the Deligne Simpson problem Each article provides a well structured overview of its topic highlighting the emerging theories developed by the authors and their General Existence Theorems in Moduli Theory Jack Kingsbury Hall, 2011 In this thesis we prove that there is colleagues an algebraic stack parameterizing all curves The curves that appear in this algebraic stack are allowed to be arbitrarily singular non reduced disconnected and reducible We also prove the boundedness of the open substack parameterizing reduced and connected curves with fixed arithmetic genus g and at most e irreducible components We also show that for essentially any algebraic stack there is an algebraic stack the Hilbert stack parameterizing quasi finite maps to the stack The technical heart of this result is a generalization of formal GAGA to a non separated morphism of algebraic stacks something that was previously unknown for a morphism of schemes We also employ derived algebraic geometry in an essential way to prove the algebraicity of the Hilbert stack The Hilbert stack for algebraic spaces was claimed to exist by M Artin 1974 but was left unproved due to a lack of foundational results for non separated algebraic spaces Finally we generalize the fundamental GAGA results of J P Serre 1956 in three ways to the non separated setting to stacks and to families As an

application of these results we show that analytic compactifications of the moduli stack of smooth curves possessing modular interpretations are algebraizable *Tate Duality in Positive Dimension over Function Fields* Zev Rosengarten,2023-11-27 View the abstract The Canonical Ring of a Stacky Curve John Voight,David Zureick-Brown,2022-05-24 View the abstract

Higher Ramanujan Equations and Periods of Abelian Varieties Tiago J. Fonseca, 2023-01-18 View the abstract Compactifications Of Pel-type Shimura Varieties And Kuga Families With Ordinary Loci Kai-wen Lan, 2017-07-21 This book is a comprehensive treatise on the partial toroidal and minimal compactifications of the ordinary loci of PEL type Shimura varieties and Kuga families and on the canonical and subcanonical extensions of automorphic bundles The results in this book serve as the logical foundation of several recent developments in the theory of p adic automorphic forms and of the author's work with Harris Taylor and Thorne on the construction of Galois representations without any polarizability conditions which is a major breakthrough in the Langlands program This book is important for active researchers and graduate students who need to understand the above mentioned recent works and is written with such users of the theory in mind providing plenty of explanations and background materials which should be helpful for people working in similar areas It also contains precise internal and external references and an index of notation and terminologies These are useful for readers to quickly locate materials they need Arithmetic Compactifications of PEL-type Shimura Varieties Kai-Wen Lan, 2013-03-24 By studying the degeneration of abelian varieties with PEL structures this book explains the compactifications of smooth integral models of all PEL type Shimura varieties providing the logical foundation for several exciting recent developments The book is designed to be accessible to graduate students who have an understanding of schemes and abelian varieties PEL type Shimura varieties which are natural generalizations of modular curves are useful for studying the arithmetic properties of automorphic forms and automorphic representations and they have played important roles in the development of the Langlands program As with modular curves it is desirable to have integral models of compactifications of PEL type Shimura varieties that can be described in sufficient detail near the boundary This book explains in detail the following topics about PEL type Shimura varieties and their compactifications A construction of smooth integral models of PEL type Shimura varieties by defining and representing moduli problems of abelian schemes with PEL structures An analysis of the degeneration of abelian varieties with PEL structures into semiabelian schemes over noetherian normal complete adic base rings A construction of toroidal and minimal compactifications of smooth integral models of PEL type Shimura varieties with detailed descriptions of their structure near the boundary Through these topics the book generalizes the theory of degenerations of polarized abelian varieties and the application of that theory to the construction of toroidal and minimal compactifications of Siegel moduli schemes over the integers as developed by Mumford Faltings and Chai Singularities of the Minimal Model Program János Kollár, Sándor Kovács, 2013-02-21 An authoritative reference and the first comprehensive treatment of the singularities of the minimal model program Moduli Spaces and Vector

Bundles—New Trends Peter Gothen, Margarida Melo, Montserrat Teixidor i Bigas, 2024-07-18 This volume contains the proceedings of the VBAC 2022 Conference on Moduli Spaces and Vector Bundles New Trends held in honor of Peter Newstead's 80th birthday from July 25 29 2022 at the University of Warwick Coventry United Kingdom The papers focus on the theory of stability conditions in derived categories non reductive geometric invariant theory Brill Noether theory and Higgs bundles and character varieties The volume includes both survey and original research articles Most articles contain substantial background and will be helpful to both novices and experts Sage for Undergraduates Gregory V. Bard, 2022-09-26 As the open source and free alternative to expensive software like Maple Mathematica and MATLAB Sage offers anyone with a web browser the ability to use cutting edge mathematical software and share the results with others often with stunning graphics This book is a gentle introduction to Sage for undergraduate students during Calculus II Multivariate Calculus Differential Equations Linear Algebra Math Modeling or Operations Research This book assumes no background in programming but the reader who finishes the book will have learned about 60 percent of a first semester computer science course including much of the Python programming language The audience is not only math majors but also physics engineering environmental science finance chemistry economics data science and computer science majors Many of the book s examples are drawn from those fields Filled with challenges for the students to test their progress the book is also ideal for self study What's New in the Second Edition In 2019 Sage transitioned from Python 2 to Python 3 which changed the syntax in several significant ways including for the print command All the examples in this book have been rewritten to be compatible with Python 3 Moreover every code block longer than four lines has been placed in an archive on the book s website http www sage for undergraduates org that is maintained by the author so that the students won t have to retype the code Other additions include The number of challenges for the students to test their own progress in learning Sage has roughly doubled which will be a great boon for self study There's approximately 150 pages of new content including New projects on Leontief Input Output Analysis and on Environmental ScienceNew sections on Complex Numbers and Complex Analysis on SageTex and on solving problems via Monte Carlo Simulations The first three sections of Chapter 1 have been completely rewritten to give absolute beginners a smoother transition into Sage Surveys on Surgery Theory, Volume 1 Sylvain Cappell, Andrew Ranicki, Jonathan Rosenberg, 2014-09-08 Surgery theory the basis for the classification theory of manifolds is now about forty years old There have been some extraordinary accomplishments in that time which have led to enormously varied interactions with algebra analysis and geometry Workers in many of these areas have often lamented the lack of a single source that surveys surgery theory and its applications Indeed no one person could write such a survey The sixtieth birthday of C T C Wall one of the leaders of the founding generation of surgery theory provided an opportunity to rectify the situation and produce a comprehensive book on the subject Experts have written state of the art reports that will be of broad interest to all those interested in topology not only graduate students and mathematicians but mathematical

physicists as well Contributors include J Milnor S Novikov W Browder T Lance E Brown M Kreck J Klein M Davis J Davis I Hambleton L Taylor C Stark E Pedersen W Mio J Levine K Orr J Roe J Milgram and C Thomas

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