### London Mathematical Society Lecture Note Series 254

# Galois Representations in Arithmetic Algebraic Geometry

Edited by A. J. Scholl & R. L. Taylor





## Galois Representations In Arithmetic Algebraic Geometry

**Wolfgang Guggemos** 

#### **Galois Representations In Arithmetic Algebraic Geometry:**

Galois Representations and Arithmetic Algebraic Geometry Yasutaka Ihara, 1987 **Galois Representations in** Arithmetic Algebraic Geometry Scholl/Taylor,1999 Galois Representations in Arithmetic Algebraic Geometry A. J. Scholl, Richard Lawrence Taylor, 1998-11-26 Conference proceedings based on the 1996 LMS Durham Symposium Galois **Galois Representations and Arithmetic Algebraic Geometry** representations in arithmetic algebraic geometry Yasutaka Ihara, 2018 Arithmetic Algebraic Geometry Brian David Conrad, The articles in this volume are expanded versions of lectures delivered at the Graduate Summer School and at the Mentoring Program for Women in Mathematics held at the Institute for Advanced Study Park City Mathematics Institute The theme of the program was arithmetic algebraic geometry The choice of lecture topics was heavily influenced by the recent spectacular work of Wiles on modular elliptic curves and Fermat's Last Theorem The main emphasis of the articles in the volume is on elliptic curves Galois representations and modular forms One lecture series offers an introduction to these objects The others discuss selected recent results current research and open problems and conjectures The book would be a suitable text for an advanced graduate topics course in arithmetic algebraic geometry **Arithmetic Algebraic Geometry** G., van der Geer, F. Oort, J.H.M. Steenbrink, 2012-12-06 Arithmetic algebraic geometry is in a fascinating stage of growth providing a rich variety of applications of new tools to both old and new problems Representative of these recent developments is the notion of Arakelov geometry a way of completing a variety over the ring of integers of a number field by adding fibres over the Archimedean places Another is the appearance of the relations between arithmetic geometry and Nevanlinna theory or more precisely between diophantine approximation theory and the value distribution theory of holomorphic maps Inspired by these exciting developments the editors organized a meeting at Texel in 1989 and invited a number of mathematicians to write papers for this volume Some of these papers were presented at the meeting others arose from the discussions that took place They were all chosen for their quality and relevance to the application of algebraic geometry to arithmetic problems Topics include arithmetic surfaces Chjerm functors modular curves and modular varieties elliptic curves Kolyvagin s work K theory and Galois representations Besides the research papers there is a letter of Parshin and a paper of Zagier with is interpretations of the Birch Swinnerton Dyer Conjecture Research mathematicians and graduate students in algebraic geometry and number theory will find a valuable and lively view of the field in this state of the art selection

Computational Aspects of Modular Forms and Galois Representations Bas Edixhoven, Jean-Marc Couveignes, 2011-06-20 Modular forms are tremendously important in various areas of mathematics from number theory and algebraic geometry to combinatorics and lattices Their Fourier coefficients with Ramanujan s tau function as a typical example have deep arithmetic significance Prior to this book the fastest known algorithms for computing these Fourier coefficients took exponential time except in some special cases The case of elliptic curves Schoof's algorithm was at the birth of elliptic curve

cryptography around 1985 This book gives an algorithm for computing coefficients of modular forms of level one in polynomial time For example Ramanujan s tau of a prime number p can be computed in time bounded by a fixed power of the logarithm of p Such fast computation of Fourier coefficients is itself based on the main result of the book the computation in polynomial time of Galois representations over finite fields attached to modular forms by the Langlands program Because these Galois representations typically have a nonsolvable image this result is a major step forward from explicit class field theory and it could be described as the start of the explicit Langlands program The computation of the Galois representations uses their realization following Shimura and Deligne in the torsion subgroup of Jacobian varieties of modular curves The main challenge is then to perform the necessary computations in time polynomial in the dimension of these highly nonlinear algebraic varieties Exact computations involving systems of polynomial equations in many variables take exponential time This is avoided by numerical approximations with a precision that suffices to derive exact results from them Bounds for the required precision in other words bounds for the height of the rational numbers that describe the Galois representation to be computed are obtained from Arakelov theory Two types of approximations are treated one using complex uniformization and another one using geometry over finite fields The book begins with a concise and concrete introduction that makes its accessible to readers without an extensive background in arithmetic geometry And the book includes a chapter that describes actual computations Geometric Analysis of Hyperbolic Differential Equations: An Introduction S. Alinhac, 2010-05-20 Its self contained presentation and do it yourself approach make this the perfect guide for graduate students and researchers wishing to access recent literature in the field of nonlinear wave equations and general relativity It introduces all of the key tools and concepts from Lorentzian geometry metrics null frames deformation tensors etc and provides complete elementary proofs The author also discusses applications to topics in nonlinear equations including null conditions and stability of Minkowski space No previous knowledge of geometry or relativity is required Elliptic Curve Cryptography Ian F. Blake, Gadiel Seroussi, Nigel P. Smart, 2005-04-25 This second volume addresses tremendous progress in elliptic curve cryptography since the first volume **Permutation Patterns** Steve Linton, Nik Ruškuc, Vincent Vatter, 2010-06-03 The study of permutation patterns is a thriving area of combinatorics that relates to many other areas of mathematics including graph theory enumerative combinatorics model theory the theory of automata and languages and bioinformatics Arising from the Fifth International Conference on Permutation Patterns held in St Andrews in June 2007 this volume contains a mixture of survey and research articles by leading experts and includes the two invited speakers Martin Klazar and Mike Atkinson Together the collected articles cover all the significant strands of current research structural methods and simple patterns generalisations of patterns various enumerative aspects machines and networks packing and more Specialists in this area and other researchers in combinatorics and related fields will find much of interest in this book In addition the volume provides plenty of material accessible to advanced undergraduates and is a suitable

reference for projects and dissertations <u>Conformal Fractals</u> Feliks Przytycki, Mariusz Urbański, 2010-05-06 A one stop introduction to the methods of ergodic theory applied to holomorphic iteration that is ideal for graduate courses

Independence-Friendly Logic Allen L. Mann, Gabriel Sandu, Merlijn Sevenster, 2011-05-05 Bringing together over twenty years of research this book gives a complete overview of independence friendly logic It emphasizes the game theoretical approach to logic according to which logical concepts such as truth and falsity are best understood via the notion of semantic games The book pushes the paradigm of game theoretical semantics further than the current literature by showing how mixed strategies and equilibria can be used to analyze independence friendly formulas on finite models The book is suitable for graduate students and advanced undergraduates who have taken a course on first order logic It contains a primer of the necessary background in game theory numerous examples and full proofs **Basics of Representation Theory** Udayan Bhattacharya, 2025-02-20 Delve into the captivating world of Basics of Representation Theory a comprehensive guide designed for students researchers and enthusiasts eager to explore the intricate symmetries and structures that underpin modern mathematics Our book offers a detailed introduction to foundational concepts providing a solid understanding of group actions linear representations and character theory From there it explores the algebraic structures of irreducible representations breaking down the decomposition into irreducible components and examining the properties of characters Readers will journey through diverse topics including the representation theory of symmetric groups Lie groups and algebraic groups as well as advanced topics such as the representation theory of finite groups the Langlands program and applications in quantum mechanics and number theory With a wealth of examples illustrations and exercises Basics of Representation Theory ensures a hands on approach to learning encouraging practical exploration and problem solving The book also includes numerous references and further reading suggestions for those who wish to delve deeper into specific topics Written in a clear and accessible style this book caters to all levels from undergraduate students encountering representation theory for the first time to experienced researchers seeking fresh insights With its comprehensive coverage and diverse applications Basics of Representation Theory is an invaluable resource for anyone interested in the beauty and depth of this field Automorphic Forms and Even Unimodular Lattices Gaëtan Chenevier, Jean Lannes, 2019-02-28 This book includes a self contained approach of the general theory of quadratic forms and integral Euclidean lattices as well as a presentation of the theory of automorphic forms and Langlands conjectures ranging from the first definitions to the recent and deep classification results due to James Arthur Its connecting thread is a question about lattices of rank 24 the problem of p neighborhoods between Niemeier lattices This guestion whose expression is guite elementary is in fact very natural from the automorphic point of view and turns out to be surprisingly intriguing We explain how the new advances in the Langlands program mentioned above pave the way for a solution This study proves to be very rich leading us to classical themes such as theta series Siegel modular forms the triality principle L functions and congruences between Galois

representations This monograph is intended for any mathematician with an interest in Euclidean lattices automorphic forms or number theory A large part of it is meant to be accessible to non specialists **Proceedings of the International** Conference on Algebra Dedicated to the Memory of A. I. Mal\$'\$cev Leonid A. Bokut', Aleksej Ivanovič Kostrikin, 1992 Kähler Metric and Moduli Spaces T. Ochiai, 2013-10-22 K hler Metric and Moduli Spaces Volume 18 II covers survey notes from the expository lectures given during the seminars in the academic year of 1987 for graduate students and mature mathematicians who were not experts on the topics considered during the sessions about partial differential equations The book discusses basic facts on Einstein metrics in complex geometry Einstein K hler metrics with positive or non positive Ricci curvature Yang Mills connections and Einstein Hermitian metrics The text then describes the tangent sheaves of minimal varieties Ricci Flat K hler metrics on affine algebraic manifolds and degenerations of K hler Einstein The moduli of Einstein metrics on a K3 surface and degeneration of Type I and the uniformization of complex surfaces are also considered Mathematicians and graduate students taking differential and analytic geometry will find the book useful Handbook of Tilting Theory Lidia Angeleri Hügel, Dieter Happel, Henning Krause, 2007-01-04 A handbook of key articles providing both an introduction and reference for newcomers and experts alike Model Theory with Applications to Algebra and Analysis Zoé Maria Chatzidakis, 2008 The first of a two volume set showcasing current research in model theory and its connections with number theory algebraic geometry real analytic geometry and differential algebra Each volume contains a series of expository essays and research papers around the subject matter of a Newton Institute Semester on Model Theory and Applications to Algebra and Analysis The articles convey outstanding new research on topics such as model theory and conjectures around Mordell Lang arithmetic of differential equations and Galois theory of difference equations model theory and complex analytic geometry o minimality model theory and noncommutative geometry definable groups of finite dimension Hilbert's tenth problem and Hrushovski constructions With contributions from so many leaders in the field this book will undoubtedly appeal to all mathematicians with an interest in model theory and its applications from graduate students to senior researchers and from beginners to experts Methods in Banach Space Theory Iesus M. F. Castillo, William B. Johnson, 2006-11-30 A comprehensive overview of modern Banach space theory Integral Closure of

*Ideals, Rings, and Modules* Craig Huneke, Irena Swanson, 2006-10-12 Ideal for graduate students and researchers this book

presents a unified treatment of the central notions of integral closure

Whispering the Strategies of Language: An Mental Journey through **Galois Representations In Arithmetic Algebraic Geometry** 

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