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# The Geometry and Cohomology of Some Simple Shimura Varieties

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Michael Harris &  
Richard Taylor

*With an appendix by  
Vladimir G. Berkovich*

# Geometry And Cohomology Of Some Simple Shimura Varieties

**Helge Holden, Ragni Piene**



## **Geometry And Cohomology Of Some Simple Shimura Varieties:**

The Geometry and Cohomology of Some Simple Shimura Varieties. (AM-151) Michael Harris, Richard Lawrence Taylor, Richard Taylor, 2001-11-04 This book aims first to prove the local Langlands conjecture for  $GL_n$  over a  $p$ -adic field and second to identify the action of the decomposition group at a prime of bad reduction on the  $l$ -adic cohomology of the simple Shimura varieties. These two problems go hand in hand. The results represent a major advance in algebraic number theory, finally proving the conjecture first proposed in Langlands's 1969 Washington lecture as a non-abelian generalization of local class field theory. The local Langlands conjecture for  $GL_n/K$  where  $K$  is a  $p$ -adic field asserts the existence of a correspondence with certain formal properties relating  $n$ -dimensional representations of the Galois group of  $K$  with the representation theory of the locally compact group  $GL_n(K)$ . This book constructs a candidate for such a local Langlands correspondence on the vanishing cycles attached to the bad reduction over the integer ring of  $K$  of a certain family of Shimura varieties. And it proves that this is roughly compatible with the global Galois correspondence realized on the cohomology of the same Shimura varieties. The local Langlands conjecture is obtained as a corollary. Certain techniques developed in this book should extend to more general Shimura varieties, providing new instances of the local Langlands conjecture. Moreover, the geometry of the special fibers is strictly analogous to that of Shimura curves and can be expected to have applications to a variety of questions in number theory. **Annals of Mathematics Studies** Michael Harris, Richard Lawrence Taylor, 1990

**The Geometry and Cohomology of Some Simple Shimura Varieties** Michael Harris, Richard Taylor, 2001-10-15 This book aims first to prove the local Langlands conjecture for  $GL_n$  over a  $p$ -adic field and second to identify the action of the decomposition group at a prime of bad reduction on the  $l$ -adic cohomology of the simple Shimura varieties. These two problems go hand in hand. The results represent a major advance in algebraic number theory, finally proving the conjecture first proposed in Langlands's 1969 Washington lecture as a non-abelian generalization of local class field theory. The local Langlands conjecture for  $GL_n/K$  where  $K$  is a  $p$ -adic field asserts the existence of a correspondence with certain formal properties relating  $n$ -dimensional representations of the Galois group of  $K$  with the representation theory of the locally compact group  $GL_n(K)$ . This book constructs a candidate for such a local Langlands correspondence on the vanishing cycles attached to the bad reduction over the integer ring of  $K$  of a certain family of Shimura varieties. And it proves that this is roughly compatible with the global Galois correspondence realized on the cohomology of the same Shimura varieties. The local Langlands conjecture is obtained as a corollary. Certain techniques developed in this book should extend to more general Shimura varieties, providing new instances of the local Langlands conjecture. Moreover, the geometry of the special fibers is strictly analogous to that of Shimura curves and can be expected to have applications to a variety of questions in number theory. On the Cohomology of Certain Non-Compact Shimura Varieties Sophie Morel, 2010-01-04 This book studies the intersection cohomology of the Shimura varieties associated to unitary groups of any rank over  $\mathbb{Q}$ . In

general these varieties are not compact The intersection cohomology of the Shimura variety associated to a reductive group  $G$  carries commuting actions of the absolute Galois group of the reflex field and of the group  $G(\mathbb{A}_f)$  of finite adelic points of  $G$  The second action can be studied on the set of complex points of the Shimura variety In this book Sophie Morel identifies the Galois action at good places on the  $G(\mathbb{A}_f)$  isotypical components of the cohomology Morel uses the method developed by Langlands Ihara and Kottwitz which is to compare the Grothendieck Lefschetz fixed point formula and the Arthur Selberg trace formula The first problem that of applying the fixed point formula to the intersection cohomology is geometric in nature and is the object of the first chapter which builds on Morel's previous work She then turns to the group theoretical problem of comparing these results with the trace formula when  $G$  is a unitary group over  $\mathbb{Q}$  Applications are then given In particular the Galois representation on a  $G(\mathbb{A}_f)$  isotypical component of the cohomology is identified at almost all places modulo a non explicit multiplicity Morel also gives some results on base change from unitary groups to general linear groups

**Harmonic Analysis, the Trace Formula, and Shimura Varieties** Clay Mathematics Institute. Summer School, 2005 Langlands program proposes fundamental relations that tie arithmetic information from number theory and algebraic geometry with analytic information from harmonic analysis and group representations This title intends to provide an entry point into this exciting and challenging field

**The Geometry of Algebraic Cycles** Reza Akhtar, Patrick Brosnan, Roy Joshua, 2010 The subject of algebraic cycles has its roots in the study of divisors extending as far back as the nineteenth century Since then and in particular in recent years algebraic cycles have made a significant impact on many fields of mathematics among them number theory algebraic geometry and mathematical physics The present volume contains articles on all of the above aspects of algebraic cycles It also contains a mixture of both research papers and expository articles so that it would be of interest to both experts and beginners in the field

**Lie Groups** Daniel Bump, 2013-04-17 This book aims to be a course in Lie groups that can be covered in one year with a group of good graduate students I have attempted to address a problem that anyone teaching this subject must have which is that the amount of essential material is too much to cover One approach to this problem is to emphasize the beautiful representation theory of compact groups and indeed this book can be used for a course of this type if after Chapter 25 one skips ahead to Part III But I did not want to omit important topics such as the Bruhat decomposition and the theory of symmetric spaces For these subjects compact groups are not sufficient Part I covers standard general properties of representations of compact groups including Lie groups and other compact groups such as finite or  $p$ -adic ones These include Schur orthogonality properties of matrix coefficients and the Peter Weyl Theorem

**An Introduction to the Langlands Program** D. Bump, 2003-05-20 This book presents a broad user friendly introduction to the Langlands program that is the theory of automorphic forms and its connection with the theory of  $L$  functions and other fields of mathematics Each of the twelve chapters focuses on a particular topic devoted to special cases of the program The book is suitable for graduate students and researchers

Automorphic Forms and

Applications Peter Sarnak, Freydoon Shahidi, 2007 The theory of automorphic forms has seen dramatic developments in recent years. In particular, important instances of Langlands functoriality have been established. This volume presents three weeks of lectures from the IAS Park City Mathematics Institute Summer School on automorphic forms and their applications. It addresses some of the general aspects of automorphic forms as well as certain recent advances in the field. The book starts with the lectures of Borel on the basic theory of automorphic forms which lay the foundation for the lectures by Cogdell and Shahidi on converse theorems and the Langlands-Shahidi method as well as those by Clozel and Li on the Ramanujan conjectures and graphs. The analytic theory of GL 2 forms and L functions are the subject of Michel's lectures while Terras covers arithmetic quantum chaos. The volume also includes a chapter by Vogan on isolated unitary representations which is related to the lectures by Clozel. This volume is recommended for independent study or an advanced topics course. It is suitable for graduate students and researchers interested in automorphic forms and number theory. The Institute for Advanced Study Park City Mathematics Institute Members of the Mathematical Association of America MAA and the National Council of Teachers of Mathematics NCTM receive a 20% discount from list price.

**Families of Automorphic Forms and the Trace Formula** Werner Müller, Sug Woo Shin, Nicolas Templier, 2016-09-20 Featuring the work of twenty-three internationally recognized experts, this volume explores the trace formula spectra of locally symmetric spaces,  $p$ -adic families, and other recent techniques from harmonic analysis and representation theory. Each peer-reviewed submission in this volume based on the Simons Foundation symposium on families of automorphic forms and the trace formula held in Puerto Rico in January-February 2014 is the product of intensive research collaboration by the participants over the course of the seven-day workshop. The goal of each session in the symposium was to bring together researchers with diverse specialties in order to identify key difficulties as well as fruitful approaches being explored in the field. The respective themes were counting cohomological forms,  $p$ -adic trace formulas, Hecke fields, slopes of modular forms, and orbital integrals.

**Mexican Mathematicians in the World** Fernando Galaz-García, Cecilia González-Tokman, Juan Carlos Pardo Millán, 2021-11-22 Articles in this volume are based on presentations given at the IV Meeting of Mexican Mathematicians Abroad (IV Reunión de Matemáticos Mexicanos en el Mundo) held from June 10-15, 2018 at Casa Matemática Oaxaca (CMO) Mexico. This meeting was the fourth in a series of ongoing biannual meetings bringing together Mexican mathematicians working abroad with their peers in Mexico. This book features surveys and research articles from five broad research areas: algebra, analysis, combinatorics, geometry, and topology. Their topics range from general relativity and mathematical physics to interactions between logic and ergodic theory. Several articles provide a panoramic view of the fields and problems on which the authors are currently working, showcasing diverse research lines complementary to those currently pursued in Mexico. The research-oriented manuscripts provide either alternative approaches to well-known problems or new advances in active research fields.

*Handbook of Homotopy Theory* Haynes Miller, 2020-01-23 The Handbook of Homotopy Theory provides a

panoramic view of an active area in mathematics that is currently seeing dramatic solutions to long standing open problems and is proving itself of increasing importance across many other mathematical disciplines The origins of the subject date back to work of Henri Poincaré and Heinz Hopf in the early 20th century but it has seen enormous progress in the 21st century A highlight of this volume is an introduction to and diverse applications of the newly established foundational theory of categories The coverage is vast ranging from axiomatic to applied from foundational to computational and includes surveys of applications both geometric and algebraic The contributors are among the most active and creative researchers in the field The 22 chapters by 31 contributors are designed to address novices as well as established mathematicians interested in learning the state of the art in this field whose methods are of increasing importance in many other areas

*Shimura Varieties* Thomas Haines, Michael Harris, 2020-02-20 This volume forms the sequel to *On the stabilization of the trace formula* published by International Press of Boston Inc 2011

### **Modern Trends in Algebra and Representation**

**Theory** David Jordan, Nadia Mazza, Sibylle Schroll, 2023-08-17 Aimed at graduate students and non experts this text gives a guided tour of modern developments in algebra and representation theory

*On Certain  $L$ -Functions* James Arthur, 2011 Illuminate various areas of the study of geometric analytic and number theoretic aspects of automorphic forms and their  $L$  functions and both local and global theory are addressed Topics discussed in the articles include Langlands functoriality the Rankin Selberg method the Langlands Shahidi method motivic Galois groups Shimura varieties orbital integrals representations of  $p$  adic groups Plancherel formula and its consequences and the Gross Prasad conjecture

### **Around**

**Langlands Correspondences** Farrell Brumley, Maria Paula Gomez Aparicio, Alberto Minguez, 2017 Presents through a mix of research and expository articles some of the fascinating new directions in number theory and representation theory arising from recent developments in the Langlands program Special emphasis is placed on nonclassical versions of the conjectural Langlands correspondences where the underlying field is no longer the complex numbers

### *Modular Representation*

*Theory Of Finite And  $p$ -adic Groups* Wee Teck Gan, Kai Meng Tan, 2015-02-13 This volume is an outgrowth of the program Modular Representation Theory of Finite and  $p$  Adic Groups held at the Institute for Mathematical Sciences at National University of Singapore during the period of 1 26 April 2013 It contains research works in the areas of modular representation theory of  $p$  adic groups and finite groups and their related algebras The aim of this volume is to provide a bridge where interactions are rare between researchers from these two areas by highlighting the latest developments suggesting potential new research problems and promoting new collaborations It is perhaps one of the few volumes if not only which treats such a juxtaposition of diverse topics emphasizing their common core at the heart of Lie theory

### **The**

**Abel Prize 2008-2012** Helge Holden, Ragni Piene, 2014-01-21 Covering the years 2008 2012 this book profiles the life and work of recent winners of the Abel Prize John G Thompson and Jacques Tits 2008 Mikhail Gromov 2009 John T Tate Jr 2010 John W Milnor 2011 Endre Szemerédi 2012 The profiles feature autobiographical information as well as a description of each

mathematician's work. In addition, each profile contains a complete bibliography, a curriculum vitae, as well as photos, old and new. As an added feature, interviews with the Laureates are presented on an accompanying web site: <http://extras.springer.com>. The book also presents a history of the Abel Prize written by the historian Kim Hølsvig and includes a facsimile of a letter from Niels Henrik Abel, which is transcribed, translated into English, and placed into historical perspective by Christian Skau. This book follows on *The Abel Prize 2003–2007: The First Five Years* (Springer, 2010), which profiles the work of the first Abel Prize winners.

Representations of Real and  $p$ -adic Groups Eng-chye Tan, Chen-bo Zhu, 2004. This invaluable volume collects the expanded lecture notes of those tutorials. The topics covered include uncertainty principles for locally compact abelian groups, fundamentals of representations of  $p$ -adic groups, the Harish-Chandra–Howe local character expansion, classification of the square-integrable representations modulo cuspidal data, Dirac cohomology, and Vogan's conjecture, multiplicity-free actions, and Schur–Weyl–Howe duality.

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