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   Titolo   The Geometry and Cohomology of Some Simple Shimura Varieties. (AM-151), Volume 151 / / Richard Taylor, Michael Harris

   Pubbl/distr/stampa   Princeton, NJ : , : Princeton University Press, , [2001]
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   Lingua di pubblicazione   Inglese

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   Nota di contenuto   Frontmatter -- Contents -- Introduction -- Acknowledgements -- Chapter I. Preliminaries -- Chapter II. Barsotti-Tate groups -- Chapter III. Some simple Shimura varieties -- Chapter IV. Igusa varieties -- Chapter V. Counting Points -- Chapter VI. Automorphic forms -- Chapter VII. Applications -- Appendix. A result on vanishing cycles / Berkovich, V. G. -- Bibliography -- Index

   Sommario/riassunto   This book aims first to prove the local Langlands conjecture for GLn 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 GLn(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 GLn(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.

2.	Record Nr.	UNINA990001778360403321
	Titolo	Measurement techniques in plant science / edited by Yasushi Hashimoto, Paul J. Kramer, Hiroshi Nonami, Boyd R. Strain
	Pubbl/distr/stampa	San Diego, : Academic Press, 1990
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