

George R. Kempf
**Complex Abelian
Varieties and
Theta Functions**

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Christina Birkenhake, Herbert Lange



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Complex Tori and Abelian Varieties Olivier Debarre, 2005 This graduate level textbook introduces the classical theory of complex tori and abelian varieties while presenting in parallel more modern aspects of complex algebraic and analytic geometry Beginning with complex elliptic curves the book moves on to the higher dimensional case giving characterizations from different points of view of those complex tori which are abelian varieties i e those that can be holomorphically embedded in a projective space This allows on the one hand for illuminating the computations of nineteenth century mathematicians and on the other familiarizing readers with more recent theories Complex tori are ideal in this respect One can perform hands on computations without the theory being totally trivial Standard theorems about abelian varieties are proved and moduli spaces are discussed

Complex Abelian Varieties and Theta Functions George R. Kempf, 2012-12-06 Abelian varieties are a natural generalization of elliptic curves to higher dimensions whose geometry and classification are as rich in elegant results as in the one dimensional case The use of theta functions particularly since Mumford s work has been an important tool in the study of abelian varieties and invertible sheaves on them Also abelian varieties play a significant role in the geometric approach to modern algebraic number theory In this book Kempf has focused on the analytic aspects of the geometry of abelian varieties rather than taking the alternative algebraic or arithmetic points of view His purpose is to provide an introduction to complex analytic geometry Thus he uses Hermitian geometry as much as possible One distinguishing feature of Kempf s presentation is the systematic use of Mumford s theta group This allows him to give precise results about the projective ideal of an abelian variety In its detailed discussion of the cohomology of invertible sheaves the book incorporates material previously found only in research articles Also several examples where abelian varieties arise in various branches of geometry are given as a conclusion of the book

Complex Abelian Varieties and Theta Functions George Kempf, 1991

Complex Abelian Varieties Christina Birkenhake, Herbert Lange, 2013-03-14 This book explores the theory of abelian varieties over the field of complex numbers explaining both classic and recent results in modern language The second edition adds five chapters on recent results including automorphisms and vector bundles on abelian varieties algebraic cycles and the Hodge conjecture far more readable than most it is also much more complete Olivier Debarre in Mathematical Reviews 1994

Abelian Varieties over the Complex Numbers Herbert Lange, 2023-03-15 This textbook offers an introduction to abelian varieties a rich topic of central importance to algebraic geometry The emphasis is on geometric constructions over the complex numbers notably the

construction of important classes of abelian varieties and their algebraic cycles The book begins with complex tori and their line bundles theta functions naturally leading to the definition of abelian varieties After establishing basic properties the moduli space of abelian varieties is introduced and studied The next chapters are devoted to the study of the main examples of abelian varieties Jacobian varieties abelian surfaces Albanese and Picard varieties Prym varieties and intermediate Jacobians Subsequently the Fourier Mukai transform is introduced and applied to the study of sheaves and results on Chow groups and the Hodge conjecture are obtained This book is suitable for use as the main text for a first course on abelian varieties for instance as a second graduate course in algebraic geometry The variety of topics and abundant exercises also make it well suited to reading courses The book provides an accessible reference not only for students specializing in algebraic geometry but also in related subjects such as number theory cryptography mathematical physics and integrable systems

Abelian Varieties Serge Lang, 2014-04 2014 Reprint of 1959 Edition Full facsimile of the original edition not reproduced with Optical Recognition Software In mathematics particularly in algebraic geometry complex analysis and number theory an abelian variety is a projective algebraic variety that is also an algebraic group i e has a group law that can be defined by regular functions Abelian varieties are at the same time among the most studied objects in algebraic geometry and indispensable tools for much research on other topics in algebraic geometry and number theory Serge Lang was a French born American mathematician He is known for his work in number theory and for his mathematics textbooks including the influential Algebra He was a member of the Bourbaki group

Abelian Varieties with Complex Multiplication and Modular Functions Goro Shimura, 1998 Reciprocity laws of various kinds play a central role in number theory In the easiest case one obtains a transparent formulation by means of roots of unity which are special values of exponential functions A similar theory can be developed for special values of elliptic or elliptic modular functions and is called complex multiplication of such functions In 1900 Hilbert proposed the generalization of these as the twelfth of his famous problems In this book Goro Shimura provides the most comprehensive generalizations of this type by stating several reciprocity laws in terms of abelian varieties theta functions and modular functions of several variables including Siegel modular functions This subject is closely connected with the zeta function of an abelian variety which is also covered as a main theme in the book The third topic explored by Shimura is the various algebraic relations among the periods of abelian integrals The investigation of such algebraicity is relatively new but has attracted the interest of increasingly many researchers Many of the topics discussed in this book have not been covered before In particular this is the first book in which the topics of various algebraic relations among the periods of abelian integrals as well as the special values of theta and Siegel modular functions are treated extensively

Introduction to Abelian Varieties V. Kumar Murty, 1986 This book presents an elementary and self contained approach to Abelian varieties a subject that plays a central role in algebraic and analytic geometry number theory and complex analysis The book is based on notes from a course given at Concordia

University and would be useful for independent study or as a textbook for graduate courses in complex analysis Riemann surfaces number theory or analytic geometry Murty works mostly over the complex numbers discussing the theorem of Abel Jacobi and Lefschetz's theorem on projective embeddings After presenting some examples Murty touches on Abelian varieties over number fields as well as the conjecture of Tate Faltings's theorem and its relation to Mordell's conjecture References are provided to guide the reader in further study

Analytic Theory of Abelian Varieties H. P. F.

Swinnerton-Dyer, 1974-12-12 The study of abelian manifolds forms a natural generalization of the theory of elliptic functions that is of doubly periodic functions of one complex variable When an abelian manifold is embedded in a projective space it is termed an abelian variety in an algebraic geometrical sense This introduction presupposes little more than a basic course in complex variables The notes contain all the material on abelian manifolds needed for application to geometry and number theory although they do not contain an exposition of either application Some geometrical results are included however

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