

<<椭圆曲线算术中的高等论题>>

图书基本信息

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前言

In the introduction to the first volume of *The Arithmetic of Elliptic Curves* (Springer-Verlag, 1986) , I observed that "the theory of elliptic curves is rich, varied, and amazingly vast," and as a consequence, "many important topics had to be omitted." I included a brief introduction to ten additional topics as an appendix to the first volume, with the tacit understanding that eventually there might be a second volume containing the details. You are now holding that second volume. Unfortunately, it turned out that even those ten topics would not fit into a single book, so I was forced to make some choices. The following material is covered in this book: I. Elliptic and modular functions for the full modular group. II. Elliptic curves with complex multiplication. III. Elliptic surfaces and specialization theorems. IV. Neron models, Kodaira-Neron classification of special fibers, Tate's algorithm, and Ogg's conductor-discriminant formula. V. Tate's theory of q -curves over p -adic fields. VI. Neron's theory of canonical local height functions. So what's still missing ?

First and foremost is the theory of modular curves of higher level and the associated modular parametrizations of elliptic curves. There is little question that this is currently the hottest topic in the theory of elliptic curves, but any adequate treatment would seem to require (at least) an entire book of its own. (For a nice introduction, see Knapp [1].) Other topics that I have left out in order to keep this book at a manageable size include the description of the image of the g -adic representation attached to an elliptic curve and local and global duality theory. Thus, at best, this book covers approximately half of the material described in the appendix to the first volume. I apologize to those who may feel disappointed, either at the incompleteness or at the choice of particular topics.

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内容概要

美国哈佛大学从1977年开始,曾多次举办“椭圆曲线”班,《椭圆曲线算术中的高等论题(英文版)》作者是该讨论班成员之一。

椭圆曲线是一个古老的数学课题,最近由于代数数论和代数几何等现代数学的进展,使它得到了新的活力。

《椭圆曲线算术中的高等论题(英文版)》是以1986年版的《椭圆曲线的算术理论》为蓝本,但在知识体系上做了较大的改动形成了这不教程,讲述上也更加专业,但在思想上是作者前《椭圆曲线算术中的高等论题(英文版)》的延续。

包括椭圆和模型函数;复乘方法;椭圆曲线;Néron模型;复域上的椭圆曲线等内容。

每章末都配有大量习题。

目次:椭圆和模型函数;复乘方法;椭圆曲线;Néron模型;复域上的椭圆曲线。

读者对象:适合数学专业的研究生和相关的科研人员。

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书籍目录

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