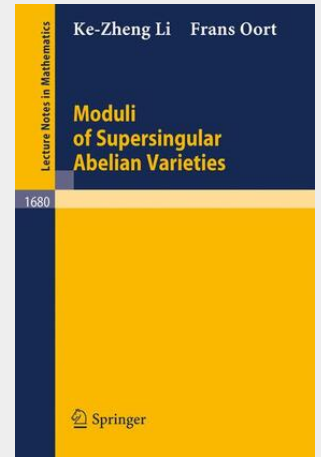


Oort / Li

Moduli of Supersingular Abelian Varieties

Abelian varieties can be classified via their moduli. In positive characteristic the structure of the p -torsion-structure is an additional, useful tool. For that structure supersingular abelian varieties can be considered the most special ones. They provide a starting point for the fine description of various structures. For low dimensions the moduli of supersingular abelian varieties is by now well understood. In this book we provide a description of the supersingular locus in all dimensions, in particular we compute the dimension of it: it turns out to be equal to $\mathbb{A}^g/g\mathbb{U}$, and we express the number of components as a class number, thus completing a long historical line where special cases were studied and general results were conjectured (Deuring, Hasse, Igusa, Oda-Oort, Katsura-Oort).

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32,05 €

29,95 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783540639237

Medium: Buch

ISBN: 978-3-540-63923-7

Verlag: Springer Berlin Heidelberg

Erscheinungstermin: 19.01.1998

Sprache(n): Englisch

Auflage: 1998

Serie: Lecture Notes in Mathematics

Produktform: Kartoniert

Gewicht: 201 g

Seiten: 116

Format (B x H): 155 x 235 mm

