1. Record Nr. UNISA996466761103316

Autore	Halle Lars Halvard
Titolo	Néron Models and Base Change [[electronic resource] /] / by Lars Halvard Halle, Johannes Nicaise
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-26638-1
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (X, 151 p.)
Collana	Lecture Notes in Mathematics, , 0075-8434 ; ; 2156
Disciplina	516.35
Soggetti	Algebraic geometry Number theory Algebraic Geometry Number Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Normal 0 false false false EN-US X-NONE X-NONE MicrosoftInternetExplorer4 Introduction -- Preliminaries -- Models of curves and the Neron component series of a Jacobian -- Component groups and non-archimedean uniformization -- The base change conductor and Edixhoven's ltration -- The base change conductor and the Artin conductor -- Motivic zeta functions of semi-abelian varieties -- Cohomological interpretation of the motivic zeta function. /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Table Normal"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-priority:99; mso-style-qformat:yes; mso-style-parent:""; mso-padding-alt:0in 5.4pt 0in 5.4pt; mso-para-margin-top: 0in; mso-para-margin-right:0in; mso-para-margin-bottom:10.0pt; mso-para-margin-left:0in; line-height:115%; mso-pagination:widow-orphan; font-size:11.0pt; font-family:"Calibri","sans-serif"; mso-ascii-font-family:Calibri; mso-ascii-theme-font:minor-latin; mso-fareast-font-family:"Times New Roman"; mso-fareast-theme-font:minor-fareast; mso-hansi-font-family:Calibri; mso-hansi-theme-font:minor-latin; mso-bidi-font-family:"Times New Roman"; mso-bidi-theme-font: minor-bidi;}.

Sommario/riassunto

Presenting the first systematic treatment of the behavior of Néron models under ramified base change, this book can be read as an introduction to various subtle invariants and constructions related to Néron models of semi-abelian varieties, motivated by concrete research problems and complemented with explicit examples. Néron models of abelian and semi-abelian varieties have become an indispensable tool in algebraic and arithmetic geometry since Néron introduced them in his seminal 1964 paper. Applications range from the theory of heights in Diophantine geometry to Hodge theory. We focus specifically on Néron component groups, Edixhoven's filtration and the base change conductor of Chai and Yu, and we study these invariants using various techniques such as models of curves, sheaves on Grothendieck sites and non-archimedean uniformization. We then apply our results to the study of motivic zeta functions of abelian varieties. The final chapter contains a list of challenging open questions. This book is aimed towards researchers with a background in algebraic and arithmetic geometry.