

1. Record Nr.	UNINA9910483516003321
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Titolo	Analytic number theory : lectures given at the C. I. M. E. summer school held in Cetraro, Italy, July 11 - 18, 2002 // J. B. Friedlander [and three others]
Pubbl/distr/stampa	Berlin ; ; Heidelberg : , : Springer-Verlag, , [2006] ©2006
ISBN	3-540-36364-5
Edizione	[1st ed. 2006.]
Descrizione fisica	1 online resource (223 p.)
Collana	Lecture notes in mathematics ; ; 1891
Disciplina	516.35
Soggetti	Geometry, Algebraic Number theory Applied mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Producing Prime Numbers via Sieve Methods -- Counting Rational Points on Algebraic Varieties -- Conversations on the Exceptional Character -- Axiomatic Theory of L-Functions: the Selberg Class.
Sommario/riassunto	The four contributions collected in this volume deal with several advanced results in analytic number theory. Friedlander's paper contains some recent achievements of sieve theory leading to asymptotic formulae for the number of primes represented by suitable polynomials. Heath-Brown's lecture notes mainly deal with counting integer solutions to Diophantine equations, using among other tools several results from algebraic geometry and from the geometry of numbers. Iwaniec's paper gives a broad picture of the theory of Siegel's zeros and of exceptional characters of L-functions, and gives a new proof of Linnik's theorem on the least prime in an arithmetic progression. Kaczorowski's article presents an up-to-date survey of the axiomatic theory of L-functions introduced by Selberg, with a detailed exposition of several recent results.