

1.	Record Nr.	UNINA990000149740403321
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	Titolo	Circa un nuovo metodo per determinare la bobina di Petersen ed il campo di applicazione di essa : (Comunicazione tenuta alla Sezione di Napoli nell'adunanza del 14 aprile 1923) / Basilio Focaccia
	Pubbl/distr/stampa	[Napoli] : AEI, 1923
	Descrizione fisica	8 p. : ill. ; 32 cm
	Locazione	FINBC
	Collocazione	13 MISC 504 10
	Lingua di pubblicazione	Italiano
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Estr. dall'Elettrotecnica, Giornale ed atti della Associazione Elettrotecnica Italiana, 25 giugno 1923, vol. 10., n. 18
2.	Record Nr.	UNINA9910300140703321
	Titolo	Irregularities in the Distribution of Prime Numbers : From the Era of Helmut Maier's Matrix Method and Beyond // edited by János Pintz, Michael Th. Rassias
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
	ISBN	3-319-92777-9
	Edizione	[1st ed. 2018.]
	Descrizione fisica	1 online resource (220 pages)
	Disciplina	512.72
	Soggetti	Number theory Functions of complex variables Functions, Special Number Theory Functions of a Complex Variable Special Functions
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa

Nota di contenuto

Foreword (H. Maier) -- Preface -- 1. Chains of Large Gaps Between Primes (K. Ford, J. Maynard, T. Tao) -- 2. A Note on the Distrution of Primes in Intervals (T. Freiberg) -- 3. Distribution of Large Gaps Between Primes (S. Funkhouser, D.A. Goldston, A.H. Ledoan) -- 4. On the Difference in Values of the Euler Totient Function Near Prime Arguments (S.R. Garcia, F. Luca) -- 5. Vinogradov's Mean Value Theorem As an Ingredient in Polynomial Large Sieve Inequalities and Some Consequences (K. Halupczok) -- 6. Unexpected Regularities in the Behavior of Some Number-Theoretic Power Series (A.J. Hildebrand) -- 7. The Convex Hull of the Prime Number Graph (N. McNew) -- 8. Irregular Behaviour of Class Numbers and Euler-Kronecker Constants of Cyclotomic Fields: the Log Log Log Devil at Play (P. Moree) -- 9. Maier's Matrix Method and Irregularities in the Distribution of Prime Numbers (A. Raigorodskii, M.Th. Rassias) -- 10. Sums of Values of Non-Principal Characters Over Shifted Primes (R.Z. Khusenovich).

Sommario/riassunto

This volume presents research and expository papers highlighting the vibrant and fascinating study of irregularities in the distribution of primes. Written by an international group of experts, contributions present a self-contained yet unified exploration of a rapidly progressing area. Emphasis is given to the research inspired by Maier's matrix method, which established a newfound understanding of the distribution of primes. Additionally, the book provides an historical overview of a large body of research in analytic number theory and approximation theory. The papers published within are intended as reference tools for graduate students and researchers in mathematics.