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Autore	Prime, Régine
Titolo	La méthode pas à pas de la contraction de texte / Régine Prime
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2. Record Nr.	UNINA9910461830703321
Autore	Katz Nicholas M. <1943->
Titolo	Convolution and equidistribution [[electronic resource]] : Sato-Tate theorems for finite-field Mellin transforms / / Nicholas M. Katz
Pubbl/distr/stampa	Princeton ; ; Oxford, : Princeton University Press, c2012
ISBN	1-283-37996-1 9786613379962 1-4008-4270-0
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front matter -- Contents -- Introduction -- CHAPTER 1. Overview -- CHAPTER 2. Convolution of Perverse Sheaves -- CHAPTER 3. Fibre Functors -- CHAPTER 4. The Situation over a Finite Field -- CHAPTER 5. Frobenius Conjugacy Classes -- CHAPTER 6. Group-Theoretic Facts about Ggeom and Garith -- CHAPTER 7. The Main Theorem -- CHAPTER 8. Isogenies, Connectedness, and Lie-Irreducibility -- CHAPTER 9. Autodualities and Signs -- CHAPTER 10. A First Construction of Autodual Objects -- CHAPTER 11. A Second Construction of Autodual Objects -- CHAPTER 12. The Previous Construction in the Nonsplit Case -- CHAPTER 13. Results of Goursat-Kolchin-Ribet Type -- CHAPTER 14. The Case of $SL(2)$; the Examples of Evans and Rudnick -- CHAPTER 15. Further $SL(2)$ Examples, Based on the Legendre Family -- CHAPTER 16. Frobenius Tori and Weights; Getting Elements of Garith -- CHAPTER 17. $GL(n)$ Examples -- CHAPTER 18. Symplectic Examples -- CHAPTER 19. Orthogonal Examples, Especially $SO(n)$ Examples -- CHAPTER 20. $GL(n) \times GL(n) \times \dots \times GL(n)$ Examples -- CHAPTER 21. $SL(n)$ Examples, for n an Odd Prime -- CHAPTER 22. $SL(n)$ Examples with Slightly Composite n -- CHAPTER 23. Other $SL(n)$ Examples -- CHAPTER 24. An $O(2n)$ Example -- CHAPTER 25. G_2 Examples: the Overall Strategy -- CHAPTER 26. G_2 Examples: Construction in Characteristic Two -- CHAPTER 27. G_2 Examples: Construction in Odd Characteristic -- CHAPTER 28. The Situation over \mathbb{F}_q : Results -- CHAPTER 29. The Situation over \mathbb{F}_q : Questions -- CHAPTER 30. Appendix: Deligne's Fibre Functor -- Bibliography -- Index
Sommario/riassunto	Convolution and Equidistribution explores an important aspect of number theory--the theory of exponential sums over finite fields and their Mellin transforms--from a new, categorical point of view. The book presents fundamentally important results and a plethora of examples, opening up new directions in the subject. The finite-field Mellin transform (of a function on the multiplicative group of a finite field) is defined by summing that function against variable multiplicative characters. The basic question considered in the book is how the values of the Mellin transform are distributed (in a probabilistic sense), in cases where the input function is suitably algebro-geometric. This question is answered by the book's main theorem, using a mixture of geometric, categorical, and group-theoretic methods. By providing a new framework for studying Mellin transforms over finite fields, this book opens up a new way for researchers to further explore the subject.