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Nota di contenuto	<p>""Preface""; ""Part I: L-functions of varieties over finite fields and Artin L-functions""; ""Computational aspects of Artin -functions""; ""Introduction""; ""1. Modular forms and Maass forms""; ""2. Weight one holomorphic modular forms""; ""3. Some character tables""; ""4. Artin -functions""; ""5. Modular forms of weight one and Artin -functions""; ""6. Linear and projective Galois representations""; ""7. Computation of Artin -functions""; ""References""; ""Zeta functions for families of Calabi€?Yau -folds with singu""; ""1. Introduction""; ""2. Facts about the zeta-function""</p> <p>""3. Singularity analysis for some families of Fermat-type Calabi€?Yau n-folds""""4. The influence of singularity data on strong -classes""; ""5. Examples of 2-parameter families""; ""6. Conclusion""; ""References""; ""Estimates for exponential sums with a large automorphism group""; ""1. Introduction""; ""2. Additive character sums for translation invariant polynomials""; ""3. Multiplicative character sums for translation invariant polynomials""; ""4. Additive character sums for homothety invariant polynomials""; ""5. Multiplicative</p>

character sums for homothety invariant polynomials"

"References"; "Part II: Height zeta functions and arithmetic"; "Height zeta functions on generalized projective toric varieties"; "1. Introduction and detailed description of the problem"; "2. Notations and preliminaries"; "3. Statements of main results"; "4. Proof of Theorem 3"; "5. Proofs of Proposition 2 and Theorems 1, 2"; "References"; "Combinatorial cubic surfaces and reconstruction theorems"; "References"; "Height zeta functions of equivariant compactifications of semi-direct products of algebraic groups"; "Introduction"; "1. Geometry"; "4. Motivic integration on rigid varieties and the analytic Milnor fiber"

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