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Nota di contenuto	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 -- 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 character sums for homothety invariant polynomials -- References -- protect oindent 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.
