

Publicationes Mathematicae Debrecen **Year: 2024** **Vol.: 104** **Fasc.: 3-4**

Title: The number of prime factors in h -free and h -full polynomials over function fields

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We study the distribution of the number of prime divisors function Ω over polynomials of the function field $\mathbb{F}_q(T)$ when restricted to h -free polynomials and to h -full polynomials. We use an adaptation of the Selberg–Delange method to arithmetical semigroups due to Warlimont to compute the first and second moments in each case and show that a generalization of the Erdős–Kac theorem is true.

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