

Dirichlet divisor problem

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Let $d(n)$ be the divisor function, counting the number of positive divisors of n . The Dirichlet divisor problem is referred to the study of the error term $\Delta(x)$, that is defined as

$$\Delta(x) := \sum_{n \leq x} d(n) - x(\log x + 2\gamma - 1)$$

where γ is the Euler constant. In this talk, we shall discuss some recent work related to this error term.