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Number of Prime Factors with a Given Multiplicity

In this talk, we study a variation of the ω function. More precisely, given the positive integer k, let $\omega_k(n)$ denote the number of distinct prime factors of n which occur with multiplicity k. We will prove that $\omega_1(n)$ has the normal order $\log \log n$, while $\omega_k(n)$ does not have normal order. This is joint work with Ertan Elma.