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Number of Prime Factors with a Given Multiplicity
In this talk, we study a variation of the $\omega$ 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.

