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Sums of arithmetic functions running on factorials

We examine the behavior of common arithmetic functions at factorial arguments. For various arithmetic functions f, the asymptotic behavior of $f(n!)$, $\sum_{n \leq N} f(n!)$, and $f(n!)/f((n-1)!)$ is obtained. An analogue of Chowla's conjecture for factorial arguments is also investigated.

This is joint work with Jean-Marie De Koninck.