

1109-11-188

Nathan G McNew*, nathan.g.mcnew.gr@dartmouth.edu. *The most popular largest prime divisors.*

Consider the largest prime factor of each of the integers in the interval $[2, x]$ and let $q(x)$ denote the prime number which shows up most often in this list. In addition to investigating the behavior of this function as x tends to infinity, we look at the range of $q(x)$ and see that it misses most of the primes. We conjecture that the set of these “popular primes” is related to other interesting subsets of the prime numbers. (Received January 31, 2015)