Calkin, Neil J.; Erdős, Paul; Tovey, Craig A.
New Ramsey bounds from cyclic graphs of prime order. (In English)

We present new explicit lower bounds for some Ramsey numbers. All the graphs are cyclic and are on a prime number of vertices. We give theoretical motivation for searching for Ramsey graphs of prime order and provide additional computational evidence that primes tend to be better than composites.

Classification:
05C55 Generalized Ramsey theory
05D10 Ramsey theory
05C80 Random graphs

Keywords:
Ramsey; cyclic graphs; probabilistic bounds