

Abstract of paper [1].

In this paper we obtain a quantitative version of the well-known theorem by D. A. Goldston and H. L. Montgomery on the equivalence between the asymptotic behaviours of the mean-square of primes in short intervals and of the pair-correlation function of the zeros of the Riemann zeta-function.

References

- [1] A. Languasco, A. Perelli, and A. Zaccagnini. Explicit relations between pair correlation of zeros and primes in short intervals. *J. Math. Anal. Appl.*, 394:761–771, 2012.