Calculus on the critical line

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Abstract

In this paper, we transform the zeros in the critical line.

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1 Introduction and results

In 1896, Hadamard [Had96] proved the prime number theorem. Our mission is to filter the zeros on the critical line.

We denote Σ as the critical strip. We denote L as the the critical line. And we denote R as the set of zeros in L. We have two postulates.

Postulate 1. The zero-free regions occurs in Σ.

Postulate 2. $L - R$ is free from zeros.

Thus, the zeros decay in the critical line.

References

[Had96] J. Hadamard. Sur la distribution des zéros de la fonction $\zeta(s)$ et ses conséquences arithmetiqués (’). *Bull. Soc. Math. France*, 24:199–220, 1896.