

Filtration on the critical line

Ihsan Raja Muda Nasution

February 1, 2016

Abstract

In this paper, we delete the zeros in the critical line of the Riemann hypothesis.

MSC: 11M26

Keywords: Riemann hypothesis, critical line

1 Introduction and results

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

We denote L as the critical line. We denote R as the set of zeros of the critical line. To delete the zeros of the critical line, we must postulate two following conditions.

Postulate 1. $L - R$ is zero-free.

Postulate 2. The holes occur everywhere in R .

Thus, the zeros are off in the critical line.

References

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