## The axiomatic pattern on the critical line

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#### Abstract

In this paper, we analyze the anatomy of critical line.

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### 1 Introduction and results

In 1914, Hardy [Har14] proved that there are infinitely many zeros of  $\zeta(1/2+it)$ . In this paper, we survey the critical line. Our motivation is to propose the axiomatic pattern of zeros on the critical line.

We denote R as the set of zeros on the critical line and its complement as C(R). And [x] denotes the integer part of x. We have the following postulate.

**Postulate 1.** Let M be any zero on the critical line. Then:

- 1. |M| > 0.
- 2.  $[M] \in {\bf Z}$ .
- 3.  $M \notin C(R)$ .

## References

[Har14] G. H. Hardy. Sur les zéros de la fonction  $\zeta(s)$  de Riemann. C. R. Acad. Sci. Paris, 158:1012–1014, 1914.