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THE ZEROS OF SUMS OF THE RIEMANN ZETA FUNCTION

Haseo Ki

Yonsei University, Seoul, South Korea

Abstract

Let σ_0 be real. We study the behaviour of zeros of $\zeta(\sigma_0 + s) \pm \zeta(\sigma_0 - s)$. We give a complete explanation of the behaviour of zeros of the function except for $\frac{1}{2} \leq \sigma_0 \leq \frac{3}{4}$.

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