ICM 1998, Berlin, Aug. 18–27

Abstracts of Short Communications and Posters

Section:

8. Analysis

1991 MS Classification: 30B50

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Derivative of a Dirichlet series

For an analytic in $\{s : \ Res < A\}$, $A \in (-\infty, +\infty]$, function F, represented by an absolutely convergent Dirichlet series with exponents growing to $+\infty$ and satisfies the condition ${}_{\sigma\to A}\frac{\ln M(\sigma,F)}{\Phi(\sigma)} = 1$, where $M(\sigma, F) = \sup\{|F(\sigma + it)| : t \in \mathbb{R}\}$ and Φ be a convex on $(-\infty, A)$ function. The asymptotic behavior of the function $S_1(\sigma, F) = \frac{M(\sigma,F')}{M(\sigma,F)}$ is studied.