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On Integrability of Functions Defined by Trigonometric Series

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Abstract:

The goal of the present paper is to generalize two theorems of R.P. Boas Jr. pertaining to L^p ($p > 1$) integrability of Fourier series with nonnegative coefficients and weight x^γ . In our improvement the weight x^γ is replaced by a more general one, and the case $p = 1$ is also yielded. We also generalize an equivalence statement of Boas utilizing power-monotone sequences instead of $\{n^\gamma\}$.



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