



Power-Monotone Sequences and Fourier Series with Positive Coefficients

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Abstract: M. and S. Izumi [2] and the present author [7] have extended certain theorems of R.P. Boas [1] concerning the Fourier coefficients of functions belonging to the Lipschitz classes. Very recently L. Leindler [6] has given further generalization using the so called quasi power-monotone sequences. The goal of the present work is to further prove theorems similar to those of L. Leindler.

[1] R.P. BOAS Jr., Fourier series with positive coefficients, *J. Math. Anal. Appl.*, **17** (1967), 463–483.

[2] M. IZUMI and S. IZUMI, Lipschitz classes and Fourier coefficients, *J. Math. Mech.*, **18** (1969), 857–870.

[6] L. LEINDLER, Power-monotone sequences and Fourier series with positive coefficients, *J. Inequal. Pure Appl. Math.*, 1(1) (2000), Article 1, http://jipam.vu.edu.au/v1n1/001_99.html

[7] J. NEMETH, Fourier series with positive coefficients and generalized Lipschitz classes, *Math.* **54** (1990), 291–304.



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