

Set

$$f_n(x) = \left[\sum_0^n |x_m| r^m \right]^{1/M}.$$

Then

$$\begin{aligned} \int_{S_\infty} f_n(x) d_E x &= \int_{S_\infty} \left[\sum_0^n |x_m| r^m \right]^{1/M} d_E x \\ &\leq \int_{S_\infty} \left[\sum_0^n |x_m|^{1/M} r^{m/M} \right] d_E x \\ &= \sum_0^n \frac{r^{m/M}}{(1 + 1/M)^{m+1}} = \frac{1}{(1 + 1/M)} \sum_0^n \left(\frac{r^{1/M}}{1 + 1/M} \right)^m \\ &\leq \frac{1}{(1 + 1/M)} \sum_0^\infty \left(\frac{r^{1/M}}{1 + 1/M} \right)^m = A < \infty. \end{aligned}$$

It follows from Fatou's lemma that

$$\left\{ \sum_0^\infty |x_m| r^m \right\}^{1/M} = \lim_n f_n(x)$$

exists for almost all x in S_∞ and is integrable. Applying the above argument to a sequence $r_n \uparrow e$ and discarding a countable number of exceptional sets of measure 0, one for each r_n , we find that $R(x) \geq e$ for almost all x in S_∞ .

REFERENCES

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CORRECTION TO THE PAPER

"SUBMETHODS OF REGULAR MATRIX SUMMABILITY METHODS"*

It has been pointed out to the authors by Dr. F. R. Keogh that the construction for the matrix C in Theorem III is incorrect.

*Casper Goffman and G. M. Petersen, *Can. J. Math.*, 8 (1956), 40-46.