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BASES IN L_p FROM EXPONENTS, COSINES AND SINES

Abstract

In the paper the system of exponents $E(\lambda_k) \equiv e^{i\lambda_k t}$, $k = 0, \pm 1,...$ is considered, where $\{\lambda_k\}$ is a sequence of complex members which has the asymptotic

$$\lambda_k = n \pm \beta^{\pm} + O(|n|^{-\alpha^{\pm}}), n \to \pm \infty,$$

 $\beta^{\pm} \in C$ are complex parameters. The necessary and sufficient condition of basisness of this system in L_p , 1 is established.