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ON BASES FROM LINEAR PHASE EXPONENTS IN LEBESGUE SPACES WITH VARIABLE EXPONENT

Abstract

In the paper we consider the systems of exponents $\{\exp i\,(n-\alpha signn)\,t\}_{n\in Z}$, $1\cup\{\exp i\,(n-\alpha signn)\,t\}_{n\neq 0}$, *cosines* $\{\cos(n-\alpha)\,t\}_{n\geq 0}$ $\left(1\cup\{\cos(n-\alpha)\,t\}_{n\geq 1}\right)$ *and sines* $\{\sin(n-\alpha)\,t\}_{n\geq 1}$. *The basis properties of these systems are completely studied in the space* L_{p_t} *with variable exponent* $p(t)$.