

Zbl 624.26011

Erdős, Paul; Varma, A.K.

An extremum problem concerning algebraic polynomials. (In English)

Acta Math. Hung. 47, 137-143 (1986). [0236-5294]

Sharp estimates of Markov type for derivatives of the polynomials $p_n(x) = \sum_{k=0}^n a_k(1+x)^k(1-x)^{n-k}$ with $a_k \geq 0$ in L^2 -norm on $[-1, 1]$ are given. This extends some earlier results by *G.G.Lorentz* and the second author.

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Classification:

26D05 Inequalities for trigonometric functions and polynomials

26C05 Polynomials: analytic properties (real variables)

Keywords:

Markov's inequality for polynomials