

Cyclicity in Dirichlet-type spaces and extremal polynomials

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Abstract.

For functions f in Dirichlet-type spaces we study how to determine constructively the optimal polynomials p_n of degree n , in terms of the norm of $p_n f - 1$, concentrating on the case when f is a cyclic function. We then give upper and lower bounds for the ratio of convergence of this norm to zero as n approaches ∞ .

References

- [1] Bénéteau, C.; Condori, A.; Liaw, C.; Seco, D.; Sola, A. Cyclicity in Dirichlet-type spaces and extremal polynomials. To appear on *J. Anal. Math.*