Gilewicz, Jacek; Pleśniak, Wiesław


The authors extend a result of H. P. Blatt, E. B. Saff and M. Simkani [J. Lond. Math. Soc. (2) 38, No. 2, 307–316 (1988; Zbl 0684.41006)] on the distribution of the zeros of best polynomial approximants to continuous functions on compact subsets of $\mathbb{C}$, and point out that the problem is related to a classical result of F. Leja [Ann. Soc. Pol. Math. 12, 57–71 (1934; Zbl 0010.20102)] as well as to papers of his students.

Reviewer: J. Siciak (Kraków)

MSC:

30E10 Approximation in the complex plane
41A10 Approximation by polynomials
41A50 Best approximation, Chebyshev systems

Keywords:

best polynomial approximants