From the introduction: Determining the unknown frequencies in a trigonometric signal when the signal values are known is called the frequency analysis problem. One method for solving this problem is by using the asymptotic behavior of families of Szegő polynomials, which are monic orthogonal polynomials. The author uses the so-called $T$-process and constructs measures that can be applied in frequency analysis. The weak star convergence property is discussed along with boundedness properties. The final section deals with moments and the convergence rate.

MSC:

94A11 Application of orthogonal and other special functions
42C05 Orthogonal functions and polynomials, general theory of nontrigonometric harmonic analysis

Full Text: DOI

References:

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