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Some Convergence Results on Sinc Interpolation

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Abstract: This paper is devoted to the investigation of sinc interpolation properties corresponding to a sequence of functions having the sinc function as a basis, the interpolation is taken over the dyadic partition of the interval $[0, 2\pi]$. In

particular, a new class of functions for which the interpolation converge is introduced. The convergence of our interpolation processes is studied and answered in quite a comprehensive way. In fact, the paper aims to provide a guideline towards a large number of problems of interest in applied sciences.



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