

1079-42-14

Uday Singh* (usingh2280@yahoo.co.in), Department of Mathematics, Indian Institute of Technology Roorkee, Roorkee, 247667, India. *A Relaxed Estimate of the Degree of Fourier Approximation in Generalized Holder Metric by Matrix Means.*

Recently, Liendler [A relaxed estimate of the degree of approximation by Fourier series in generalized Hölder Metric, *Analysis Mathematica*, 35(2009), 51-60] has given a relaxed estimate pertaining to the degree of approximation of functions a new Banach space introduced by Das et. al. [An estimate of the rate of convergence of Fourier series in generalized Hölder Metric, *Analysis and Applications* (Ujjain, 1999), Narosa (New Delhi, 2002), 43-60.] through partial sums of Fourier series of as well as Nörlund, Reisz and de la Vallée - Poussin means of Fourier series of . In this paper, we extend the results of Liendler to more general class of triangular matrices such that results of Liendler become particular cases of our result. (Received September 30, 2011)