

## Degree of Approximation by the $(T.E^1)$ Means of Conjugate Fourier Series in the Hölder Metric

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**Abstract :** We compute the degree of approximation of functions  $\tilde{f} \in H_w$ , a new Banach space using  $(T.E^1)$  summability means of conjugate Fourier series. In this paper, we extend the results of Singh and Mahajan which in turn generalizes the result of Lal and Yadav. Some corollaries have also been deduced from our main theorem and particular cases.

**Keywords :** conjugate Fourier series, degree of approximation, Hölder metric, matrix summability, product summability

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