

1043-42-72

Madan Lal Mittal* (mlmittal_iit@yahoo.co.in), Math. Department I.I.T.Roorkee, Roorkee, Roorkee, UT 247667, India, and **Uaday Singh**. *On a Sequence of Fourier Coefficients*.

Let $B_n(x)$ denote the n -th term of the conjugate series of a Fourier series of function f . Mohanty and Nand [On the behavior of Fourier coefficients, Proc. Am. Math. Soc. 5(1954)79-84] were the first to establish a result for C_1 -summability of the sequence $B_n(x)$. Varshney [On a sequence of Fourier coefficients, Proc. Am. Math. Soc. 10(1959)790-795] improved it for the product summability $H_1.C_1$, which was generalized by various investigators using different summability methods with different set of conditions. In this note, we extend the result of Mittal [On the $T.C_1$ summability of a sequence of Fourier coefficients, Bull. Cal. Math. Soc., 8(1989)25-314], which in turn generalizes the results of Prasad [On the (N, p_n) summability of a sequence of Fourier coefficients, Indian J. pure appl. Math. 12(1981)874-881] and Varshney [On a sequence of Fourier coefficients, Proc. Am. Math. Soc. 10(1959)790-795]. (Received August 16, 2008)