

Khan, Vakeel A.; Tabassum, Sabiha

Statistically pre-Cauchy double sequences. (English) Zbl 1265.40020
Southeast Asian Bull. Math. 36, No. 2, 249-254 (2012).

Summary: Let $x = (x_{jk})$ be a double sequence and M be a bounded Orlicz function. We prove that x is statistically pre-Cauchy if and only if

$$\lim_{m,n} \frac{1}{m^2 n^2} \sum_{j,p \leq m} \sum_{k,q \leq n} M\left(\frac{|x_{jk} - x_{pq}|}{\rho}\right) = 0.$$

The main purpose of this paper is to extend the results of *V. A. Khan* and *Q. M. D. Lohani* [Southeast Asian Bull. Math. 31, No. 6, 1107–1112 (2007; Zbl 1150.40006)] from single to double sequences.

MSC:

40A35 Ideal and statistical convergence
40B05 Multiple sequences and series

Cited in **2** Documents

Keywords:

statistically convergent sequence; double sequence; Orlicz function