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# THE STATISTICAL AND STRONG $p$ -CESARO CONVERGENCE OF SEQUENCES

**J. S. Connor**

| DOI: <https://doi.org/10.1524/anly.1988.8.12.47>

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THE STATISTICAL AND STRONG  $p$ -CESARO CONVERGENCE OF SEQUENCES

J. S. Connor

Received : September 15, 1986

**Abstract.** It is shown that if a sequence is strongly  $p$ -Cesaro summable or  $w_p$  convergent for  $0 < p < \infty$  then the sequence must be statistically convergent and that a bounded statistically convergent sequence must be  $w_p$  convergent for any  $p$ ,  $0 < p < \infty$ . It is also shown that the statistically convergent sequences do not form a locally convex FK space. A characterization of conservative matrices which map the bounded statistically convergent sequences into convergent sequences is given and applied to Norlund and Norlund-type means.

**AMS Subject Classification No.:** 40A05, 40D25, 40D09, 40C05, 40H05

Introduction and Background

The definitions of statistical convergence and strong  $p$ -Cesaro or  $w_p$  ( $0 < p < \infty$ ) summability of a sequence were introduced in the literature independently of one another and have followed different lines of development since their first appearance. It turns out, however, that the two definitions can be simply related to one another in general and are equivalent for bounded sequences. The object of this paper is to present a partial survey of results and to extend some of the results for strong  $p$ -Cesaro summability to statistical convergence.

Before proceeding further, we pause to collect some notation and definitions. Throughout the sequel we let  $\omega$  denote the collection of all sequences of complex

## ↓ About the article

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