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On lacunary strong (A, u, Δ^m) -convergent sequences with respect to a sequence of modulus functions. (English) [Zbl 1307.46002](#)

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Summary: The purpose of this paper is to define and study the spaces $N_\theta(A, F, u, \Delta^m)$ and $N_\theta^0(A, F, u, \Delta^m)$ of lacunary strong (A, u, Δ^m) -convergent sequences with respect to a sequence of modulus functions, where $A = (a_{ik})$ is an infinite matrix of complex numbers. We also study some inclusion relations between lacunary strong (A, u, Δ^m) -convergence and lacunary (A, u, Δ^m) -statistical convergence.

In the last section are shown the relationship between the above spaces and spaces defined by Cesàro summability methods $N_\theta^c(A, F, u, \Delta^m)$ and $N_\theta^{c0}(A, F, u, \Delta^m)$.

MSC:

[46A45](#) Sequence spaces (including Köthe sequence spaces)

[40C05](#) Matrix methods for summability

[40A35](#) Ideal and statistical convergence

Cited in **1** Document

Keywords:

[difference sequence](#); [lacunary sequence](#); [statistical convergence](#); [sequence of modulus functions](#)

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