## Serpil Pehlivan, Brian Fisher Lacunary strong convergence with respect to a sequence of modulus functions

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**Abstract:** The definition of lacunary strong convergence is extended to a definition of lacunary strong convergence with respect to a sequence of modulus functions in a Banach space. We study some connections between lacunary statistical convergence and lacunary strong convergence with respect to a sequence of modulus functions in a Banach space.

Keywords: lacunary sequence, modulus function, statistical convergence, Banach space AMS Subject Classification: 40A05, 40F05