Matrix Characterization of $A$-Statistical Convergence

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By using a recently introduced concept of $A$-uniform integrability, (for nonnegative regular matrices $A$) we characterize the set of multipliers of the summability field of $A$, (denoted as $m_A(U)$), over any algebra, $U$, that lies in the sequence space of $A$-uniformly integrable sequences. Among the main results, it is shown that the space of multipliers is closely related to the space of $A$-statistically convergent sequences, and that $A$-statistical convergence over bounded sequences is equivalent to a regular matrix method.