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Abstracts of Short Communications and Posters

Section:

8. Analysis

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On convergence of sections of weakly p-summable sequences.
We discuss an elementary proof (without representations) of the known fact that each element of the Banach space $\ell^p_w(X)$ of weakly absolutely p-summable sequences (if $1 \leq p < \infty$) in the Banach space X is the norm limit of its n'th sections if and only if each absolutely p-summable sequence in X is a norm null sequence. The proof makes use of elementary sequence space properties only. Little modification to this proof leads to a similar result for a family of Orlicz sequence spaces. Some applications to spaces of compact operators on Banach sequence spaces are considered.