

Unconditional bases in Banach spaces and Tukey ordering

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Let $B = (e_n)_n$ be an unconditional basic sequence in a Banach space X and let $\mathcal{N}(B)$ be a family of those sets $A \subseteq \mathbb{N}$ for which $(e_n)_{n \in A}$ is a weakly null subsequence. One can examine properties of $B = (e_n)_n$ by looking at the cofinal structure of the ideal $\mathcal{N}(B)$.

We present a certain classification of bases in Banach spaces using Tukey reductions between partially ordered sets of the form $\mathcal{N}(B)$.