QUANTITATIVE GROTHENDIECK PROPERTY

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A Banach space X is *Grothendieck* if the weak and the weak* convergence of sequences in the dual space X^* coincide. The space ℓ_∞ is a classical example of a Grothendieck space due to Grothendieck. We introduce a quantitative version of the Grothendieck property, we prove a quantitative version of the above-metioned Grothendieck's result and we construct a Grothendieck space which is not quantitatively Grothendieck.

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