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Limited p -converging operators and relation with some geometric properties of Banach spaces

Comment.Math.Univ.Carolin. 62,4 (2021) 417–430.

Abstract: By using the concepts of limited p -converging operators between two Banach spaces X and Y , L_p -sets and L_p -limited sets in Banach spaces, we obtain some characterizations of these concepts relative to some well-known geometric properties of Banach spaces, such as $*$ -Dunford–Pettis property of order p and Pelczyński's property of order p , $1 \leq p < \infty$.

Keywords: Gelfand–Phillips property; Schur property; p -Schur property; weakly p -compact set; reciprocal Dunford–Pettis property of order p

AMS Subject Classification: 47L05, 46B25

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