

POSITIVELY LIMITED p -CONVERGENT AND WEAK* POSITIVELY p -CONVERGENT OPERATORS

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Abstract. The purpose of this article is to study two classes of operators, which we call positively limited p -convergent operators, and weak* positively p -convergent operators. We discuss the relationship between these two classes of operators, and other known classes of operators such as p -convergent operators, limited p -convergent operators, disjoint p -convergent operators, etc. Moreover, the positive DP* property of order p is studied, and the behavior of these two classes of operators on Banach lattices with this property (with focus on Banach lattices with the positively limited p -Schur property) is investigated. In addition, the domination properties of positively limited p -convergent operators, and weak* positively p -convergent operators on Banach lattices are considered.

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