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A SUFFICIENT CONDITION FOR ORDER BOUNDEDNESS OF AN ATTRACTOR FOR A POSITIVE MEAN ERGODIC OPERATOR IN A BANACH LATTICE

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We establish that a positive mean ergodic operator with a quasi-order-bounded attractor on a Banach lattice has an order-bounded attractor. This generalizes the recent result of F. Räbiger [1, Main Lemma 3.3] that was proven under the additional assumption that the operator in question is contractive. As an application, several theorems are established which generalize some results of [1–3].

Key words and phrases: Banach lattice, KB-space, contractive operator, attractor for an operator, positive mean ergodic operator, asymptotically periodic operator.

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