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On positive unipotent operators on Banach lattices

An operator on a Banach space is said to be unipotent whenever its spectrum contains only the number 1. Let T be a positive unipotent operator on a complex Banach lattice. Huijsmans and de Pagter posed a question whether T is necessarily greater than or equal to the identity operator I. We give a partial answer to the question by proving that this is true if $\lim_{n\to\infty} n\|(T-I)^n\|^{1/n} = 0$.