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Some spectral properties in ordered Banach algebras

Let A denote a complex Banach algebra with unit 1. We define an *algebra cone* C of A and show that C induces on A an ordering "$\leq$" which is compatible with the algebraic structure of A. A Banach algebra ordered by such an algebra cone is referred to as an *ordered Banach algebra* (OBA) and the elements of C are called the *positive* elements. If the order structure and the topology of A is reconciled in a certain way, C is referred to as being *normal*. We discuss some interesting spectral theoretic results in OBA's.

Reference: H. Raubenheimer and S. Rode, Cones in Banach algebras, *Indag. Mathem., N. S.* **7(4)** (1996), 489 – 502.