



Ian Doust (i.doust@unsw.edu.au) School of Mathematics, University of New South Wales, UNSW Sydney, NSW, 2052 Australia, *Banach-Stone theorems for $AC(\sigma)$ spaces*.

ABSTRACT. The Banach algebras $AC(\sigma)$ and $BV(\sigma)$, consisting of functions defined on a compact set $\sigma \subseteq \mathbb{C}$, were introduced by Brenden Ashton and the speaker in order to provide a functional calculus model for a class of Banach space operators similar to the theory for normal operators on a Hilbert space. A natural question which arises in this study is the relationship between the topology of the domain of the functions, σ , and the Banach algebra $AC(\sigma)$. Although one does not get a full Banach-Stone theorem in this context, we shall discuss just what can be shown. This is joint work with Michael Leinert (Heidelberg).