

Banach Algebras 2009

*A conference supported by the European Science Foundation under the
ESF-EMS-ERCOT partnership*

*July 14-24, 2009, Stefan Banach International Mathematical Center, Będlewo,
Poland*

Heinrich Raubenheimer, Department of Mathematics, University of Johannesburg, APK Campus, Auckland Park 2006, South Africa; (heinrichr@uj.ac.za)

On inessential elements in different Banach algebras.

ABSTRACT. If B is a subalgebra of a Banach algebra A we consider the problem of determining conditions that ensure that an element of B that exhibits a property in B also exhibits this property when viewed as an element of A . Further, we consider the converse problem whereby an element of B exhibiting an property in A also exhibits this property in B . We extend the analysis of this problem in the setting of inessential and quasi inessential elements. Secondly, we characterize positive quasi inessential elements in the setting of ordered Banach algebras. The quasi inessential elements are the analogues of the quasi compact operators on a Banach space.