



Banach J. Math. Anal. 8 (2014), no. 2, 60–66

BANACH JOURNAL OF MATHEMATICAL ANALYSIS

ISSN: 1735-8787 (electronic)

www.emis.de/journals/BJMA/

PSEUDOQUOTIENTS ON COMMUTATIVE BANACH ALGEBRAS

DRAGU ATANASIU¹, PIOTR MIKUSIŃSKI^{2*} AND ANGELA SIPLE²

Communicated by M. Abel

ABSTRACT. We consider pseudoquotient extensions of positive linear functionals on a commutative Banach algebra \mathcal{A} and give conditions under which the constructed space of pseudoquotients can be identified with all Radon measures on the structure space $\hat{\mathcal{A}}$.

¹ UNIVERSITY OF BORÅS, BORÅS, SWEDEN

E-mail address: Dragu.Atanasiu@hb.se

² DEPARTMENT OF MATHEMATICS, UNIVERSITY OF CENTRAL FLORIDA, ORLANDO, FL 32816, USA.

E-mail address: piotr.mikusinski@ucf.edu

E-mail address: asiple@knights.ucf.edu

Date: Received: Aug. 6, 2013; Accepted: Sep. 8, 2013.

* Corresponding author.

2010 *Mathematics Subject Classification.* Primary 46J05; Secondary 43A32, 43A35, 28C05.

Key words and phrases. Banach algebra, structure space, positive linear functional, pseudoquotient, Radon measure.