



Ann. Funct. Anal. 4 (2013), no. 1, 61–63

ANNALS OF FUNCTIONAL ANALYSIS

ISSN: 2008-8752 (electronic)

URL: www.emis.de/journals/AFA/

A CHARACTERISATION OF C^* -ALGEBRAS THROUGH POSITIVITY OF FUNCTIONALS

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Communicated by T. Loring

ABSTRACT. We show that a unital involutive Banach algebra, with identity of norm one and continuous involution, is a C^* -algebra, with the given involution and norm, if every continuous linear functional attaining its norm at the identity is positive.

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Date: Received: 5 September 2012; Accepted: 23 September 2012.

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2010 *Mathematics Subject Classification.* Primary 46K05; Secondary 46H05.

Key words and phrases. Involutive Banach algebra, C^* -algebra, positive functional.