



Ann. Funct. Anal. 2 (2011), no. 2, 1–9

ANNALS OF FUNCTIONAL ANALYSIS

ISSN: 2008-8752 (electronic)

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

STABILITY RESULTS FOR C^* -UNITARIZABLE GROUPS

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Communicated by R. B. V. Bhat

ABSTRACT. We say that a locally compact group G is C^* -unitarizable if its full group C^* -algebra $C^*(G)$ satisfies Kadison's similarity problem (SP), i.e. every bounded representation of $C^*(G)$ on a Hilbert space is similar to a $*$ -representation. We prove that locally compact and unitarizable groups are C^* -unitarizable. For discrete groups, we prove that C^* -unitarizable passes to quotients. Moreover, a given discrete group is C^* -unitarizable whenever we can find a normal and C^* -unitarizable subgroup with amenable quotient.

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Date: Received: 11 January 2011; Accepted: 30 May 2011.

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2010 *Mathematics Subject Classification.* Primary 46L05; Secondary 46L07, 43A07, 43A65.

Key words and phrases. Unitarizable representation, group C^* -algebra, similarity problem, amenable group.