



Ann. Funct. Anal. 4 (2013), no. 1, 11–17

ANNALS OF FUNCTIONAL ANALYSIS

ISSN: 2008-8752 (electronic)

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

CONFORMAL NETS AND KK-THEORY

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Communicated by N. P. Landsman

ABSTRACT. Given a completely rational conformal net \mathcal{A} on S^1 , its fusion ring acts faithfully on the K-group $K_0(\mathfrak{K}_{\mathcal{A}})$ of a certain universal C^* -algebra $\mathfrak{K}_{\mathcal{A}}$ associated to \mathcal{A} , as shown in a previous paper. We prove here that this action can actually be identified with a Kasparov product, thus paving the way for a fruitful interplay between conformal field theory and KK-theory.

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Date: Received: 24 July 2012; Accepted: 13 August 2012.

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2010 *Mathematics Subject Classification.* Primary 81Txx; Secondary 46Lxx, 58B34, 19K35.

Key words and phrases. Operator algebra, conformal field theory, conformal net, superselection sector, fusion ring, K-theory, Kasparov product.