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Paul Daniel Skoufranis* (pskoufra@math.ucla.edu). *On a Notion of Exactness for Reduced Free Products of C^* -Algebras.*

We will study some modifications to the notion of an exact C^* -algebra by replacing the minimal tensor product with the reduced free product. First we will demonstrate how the reduced free product of a short exact sequence of C^* -algebras with another C^* -algebra may be taken. It will then be demonstrated that this operation preserves exact sequences. We will also establish that adjoining arbitrary k -tuples of operators in a free way behaves well with respect to taking ultrapowers. (Received September 08, 2012)