1027-46-191 **Bruce Blackadar*** (bruceb@unr.edu), Department of Mathematics/084, University of Nevada, Reno, Reno, NV 89557. Nonstable K-Theory of Unital Free Product C*-Algebras. Preliminary report.

We will discuss several problems and results concerning the nonstable K-theory of unital free products of C*-algebras, including the homotopy classes of projections and unitaries. If A is a unital C*-algebra, the quotient group $\mathcal{U}(A)/\mathcal{U}(A)_0$ of the unitary group of A by the connected component of the identity is called the *unitary path group* of A. We show that for many unital C*-algebras B, the natural map from the unitary path group of A to the unitary path group of the unital free product $A *_{\mathbb{C}} B$ is injective, for every unital C*-algebra A. (Received February 26, 2007)