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Larry G Brown, 150 N. University Street, West Lafayette, Wesf Lafayette, IN 47907, and Hyun Ho Lee*, 150 N. University Street, West Lafayette, Department of Mathematics, West Lafayette, IN 47907-2067. Homotopy Class of projections in Corona algebras of a non-simple stable C*-algebra. Preliminary report.

Let A be one of C^* -algebras $C([0,1]) \otimes K$, $C_0([0,\infty)) \otimes K$, or $C_0(-\infty,\infty) \otimes K$ where K is the C^* -algebra of compact operators in separable infinite dimensional Hilbert space. An element of the corona algebra C(A)=M(A)/A can be described as follows: Consider a finite partition of X given by partition points $x_1 < x_2 < \cdots < x_n$ (all in interior of X) and divide X into n+1 pieces X_0, X_1, \cdots, X_n . Then $f \in C(A)$ can be represented as (f_0, f_1, \cdots, f_n) where $f_i \in C_b(X_i, B(H)_{*-strong})$ such that $f_i(x_i) - f_{i-1}(x_i) \in K$. Then a projection P(A) in P(A) described as above, can be liftable to a projection in P(A) if and only if there are integers P(A) in such that P(A) in such that P(A) in P(A) in