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Ping Wong Ng* (png@louisiana.edu), Lafayette, LA 70504. *Algebraic and quasiequivalence of type III representations of simple nuclear C*-algebras*. Preliminary report.

In this short paper, we derive some consequences of our von Neumann algebra uniqueness theorem (solving a problem of Kishimoto).

Among other things, we prove the following:

Let A be a separable simple nuclear C*-algebra and let π_1, π_2 be nondegenerate type III representations of A on a separable Hilbert space. Then π_1 and π_2 are algebraically equivalent if and only if there exists an asymptotically inner automorphism α on A such that $\pi_1 \circ \alpha$ and π_2 are quasiequivalent. (Received August 22, 2011)