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*On type III representations of simple nuclear  $C^*$ -algebras.*

In 1967, Powers proved that two representations  $\pi_1$  and  $\pi_2$  (on a separable Hilbert space) of a UHF algebra  $A$  are algebraically equivalent iff there is an automorphism  $\alpha$  of  $A$  such that  $\pi_1 \circ \alpha$  and  $\pi_2$  are quasi-equivalent. In this talk I will present the extension of this result to simple separable nuclear  $C^*$ -algebras when the representations are of type III. This result solves a question of A. Kishimoto and is a joint work with Ping Ng.