1167-47-139   **Donald W. Hadwin*** (`operatorguy@gmail.com`), 33 Academic Way, MATH DEPT UNH, Durham, NH 03824. *Generalizations of theorems of Glimm and Voiculescu in infinite factor von Neuman algebras.* Preliminary report.

D. Voiculescu used J. Glimm's characterization of states that annihilate the compact operators to prove his results on approximate (unitary) equivalence. We prove a version of Glimm's theorem for a special class of RR0 C*-algebras. We also prove specialized versions of Voiculesdcu's results in certain factor von Neumann algebras acting on possibly nonseparable Hilberts spaes. We prove that every closed linear subspace of a type III factor with a separable predual is approximately hyperreflexive with constant 1. (Received March 04, 2021)