1063-03-33     **Simon Thomas\*** (`sthomas@math.rutgers.edu`), Mathematics Department, Rutgers University, 110 Frelinghuysen Road, Piscataway, NJ 08854. *Ramsey Cardinals and the $HNN$ Embedding Theorem.*

The Higman-Neumann-Neumann Embedding Theorem states that any countable group $G$ can be embedded into a 2-generator group $K_G$. In the standard proof of this classical theorem, the construction of the group $K_G$ involves an enumeration of a set of generators of the group $G$; and it is clear that the isomorphism type of $K_G$ usually depends upon both the generating set and the particular enumeration that is used. Some time ago, we proved that there does not exist a more uniform construction with the property that if $G \cong H$, then $K_G \cong K_H$. However, it turns out that we can obtain a much more striking result if we are willing to make use of a relatively mild large cardinal assumption. (Received July 14, 2010)