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Randall R. Holmes* (holmerr@auburn.edu), Department of Mathematics, Auburn University, Auburn, AL 36849-5310, and **Frank A. Casabianca**. *Units in Hecke Algebras*. Preliminary report.

Let G be a finite group, let H be a subgroup of G . Let λ be an irreducible character of H and let e be the associated central idempotent of $\mathbf{C}H$. Then $\mathcal{H} = e\mathbf{C}Ge$ is an algebra called a *Hecke algebra*. Following work of D. Alvis, we investigate conditions under which ege is a unit of \mathcal{H} for g an element of G . (Received September 29, 2000)