

1077-20-2820

Adam Anthony Allan* (aallan@slu.edu), 245 Union Boulevard, Apt. 505, St. Louis, MO
63108. *Symmetry of Endomorphism Algebras - preliminary report.* Preliminary report.

Motivated by recent problems regarding the symmetry of Hecke algebras, we investigate the symmetry of the endomorphism algebra $E_P(M)$ for P a p -group and M a kP -module with k a field of characteristic p . We provide a complete analysis for cyclic p -groups and the dihedral 2-groups. We also extend this analysis for more general endomorphism algebras $E_A(M)$ where A is a Nakayama algebra or a block with cyclic defect group. The methods developed in this paper should be applicable more generally. (Received September 22, 2011)