

1069-19-70

Bruce A Magurn* (magurnba@muohio.edu), Department of Mathematics, Miami University, Oxford, OH 45056. *Negative K -theory of generalized quaternion groups and binary polyhedral groups.*

Classical group representation theory is used to show the finite groups that have finite negative K -theory are those groups with every element of prime power order. There follows a computation of the K_{-1} of integral group rings $\mathbb{Z}G$ for all finite non-abelian subgroups of the group $SU(2)$ of unit quaternions. In principle, the method applies to any finite group. (Received January 13, 2011)