

ON RADICALS OF RINGS WITH FINITE GROUP ACTIONS

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Let R be an associative ring, G a finite group of automorphisms of R , and R^G the fixed subring of R . We examine whether $S(R^G) = S(R) \cap R^G$ if S is replaced by P , J or N , where P , J and N denote the prime, the Jacobson and the nil radical, respectively.