

1012-14-99

V Lakshmibai* (lakshmibai@neu.edu), Northeastern University, Mathematics Department, Boston, MA 02115, and **P Shukla** (shukla@mcs.suffolk.edu). *Cohen-Macaulayness of certain rings of invariants.*

We consider the action of $SL_n(K)$ on the affine space X consisting of m -copies of K^n , $m > n$, K being an algebraically closed field of arbitrary characteristic. We construct a standard monomial basis for the corresponding ring of invariants; as a consequence, we prove that the ring of invariants is Cohen-Macaulay. (Received September 12, 2005)