

1096-VJ-836

Nathaniel J Schwartz* (nschwartz2@washcoll.edu), 300 Washington Avenue, Chestertown, MD 21620. *On the k -involutions of $O(n, k)$ when k has characteristic 2.* Preliminary report.

The characterization and classification of k -involutions of algebraic groups enables one to determine much of the structure of the related symmetric k -varieties. The characterization of k -involutions of connected, reductive algebraic groups over algebraically closed fields of characteristic not 2 is complete, and recently the k -involutions of $SL(n, k)$ and $SO(2n + 1, k)$ over perfect fields of characteristic not 2 has been completely classified. Here we proceed with a similar theme, but k is any field of characteristic 2, and we focus on $O(n, k)$. (Received September 10, 2013)