CORRECTION TO "ORTHOGONAL REPRESENTATIONS OF ALGEBRAIC GROUPS"

BY
FRANK GROSSHANS

The proof of Lemma II.2 is incomplete. The difficulty arises in (i) where it is stated that $\lambda = \sum_{r=1}^n m_r \alpha_r$ with each m_r an integer. This statement is not true in general for $G = SL(n+1, K)$. However, for this G the element g in (ii) can be easily computed as follows. Let T be diagonal matrices in G with respect to a K -rational basis $e_1, \dots, e_{n+1}$ of V . Denote by Ψ the automorphism of G given by $h \rightarrow {}^t h^{-1}$. Then g is given by $ge_r = (-1)^{r+1} e_{n-r+2}$ for $r = 1, \dots, n+1$. Furthermore, $\Psi \circ \theta = I_g$ and, hence, $\theta(g) = g$.

DEPAUL UNIVERSITY,
CHICAGO, ILLINOIS