CORRECTION TO "ORTHOGONAL REPRESENTATIONS OF ALGEBRAIC GROUPS"

BY

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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 \( e_1, \ldots, e_{n+1} \) of \( V \). Denote by \( \Psi \) the automorphism of \( G \) given by \( h \rightarrow \Psi h^{-1} \). Then \( g \) is given by \( ge_r = (-1)^{r+1} e_{n-r+2} \) for \( r = 1, \ldots, n+1 \). Furthermore, \( \Psi \circ \theta = I_g \) and, hence, \( \theta(g) = g \).

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