1043-22-51   **Scott P Crofts*** (`crofts@math.utah.edu`). *Genuine Representations of*
$\widetilde{Spin}(n+1, n)$. Preliminary report.

Let $G = \mathrm{Spin}(n+1, n)$ be the split real form of a simply connected complex Lie group of type B_n. Then G has a unique nonlinear double cover $\tilde{G} = \widetilde{\mathrm{spin}}(n+1, n)$. In this talk we discuss genuine representations of $\tilde{G}$ at certain half-integral infinitesimal characters. In particular, we prove a duality theorem for the multiplicities of formal characters of $\tilde{G}$. Such 'character multiplicity duality' is an important feature of linear groups, originally due to Vogan. Software exhibiting this duality in certain cases will also be demonstrated. (Received August 11, 2008)