1100-22-260   **Wan-Yu Tsai*** (`wanyu@math.umd.edu`), 432 Ridge Rd. Apt 8, Greenbelt, MD 20770. *Lift of the trivial representation to a nonlinear cover.* Preliminary report.

Let G be the real points of a simply laced, simply connected complex Lie group, and $\widetilde{G}$ be the nonlinear two-fold cover of G. We'll discuss a set of small genuine representations of $\widetilde{G}$, denoted by $\mathrm{Lift}(\mathbb{C})$, which can be obtained from the trivial representation of G by a lifting operator. The representations in $\mathrm{Lift}(\mathbb{C})$ can be characterized by the following properties: (a) the infinitesimal character is $\rho/2$; (b) they have maximal tau-invariant; (c) they have a particular associated variety $\mathcal{O}$. When G is split, we will show that all representations in $\mathrm{Lift}(\mathbb{C})$ are parametrized by pairs (central character, real form of $\mathcal{O}$) by examples. (Received February 09, 2014)