Observation of $D_{s}^{**}$ states in semileptonic $B$ decays

JASON RIEGER, Indiana University, DZERO COLLABORATION — Using 460 pb$^{-1}$ of integrated luminosity accumulated with the DØ detector, we have observed the semileptonic decays $B \rightarrow \mu\mu D_{s}^{**}$ where the different excited $D_{s}^{**}$ are reconstructed in the mode $D_{s}^{**} \rightarrow D^{*}K_{S}^{0}$. Mass peaks in the invariant mass of $D^{*}K_{S}^{0}$ are presented.