## Abstract Submitted for the APR05 Meeting of The American Physical Society

Observation of  $D_s^{**}$  states in semileptonic B decays JASON RIEGER, Indiana University, DZERO COLLABORATION — Using 460 pb<sup>-1</sup> of integrated luminosity accumulated with the DØ detector, we have observed the semileptonic decays  $B \to \mu\mu D_s^{**}$  where the different excited  $D_s^{**}$  are reconstructed in the mode  $D_s^{**} \to D^*K_S^0$ . Mass peaks in the invariant mass of  $D^*K_S^0$  are presented.

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Date submitted: 12 Jan 2005 Electronic form version 1.4