Study of $B_s$ oscillations using semileptonic decays

DAN KROP, Indiana University, DZERO COLLABORATION — We report preliminary results on the search for $B_s$ oscillations using approximately 910 pb$^{-1}$ of data taken at the DØ experiment during Run IIa at the Tevatron. We search for oscillations in the time dependence of semileptonic decays of the $B_s$, $B_s \rightarrow D_s lX$ where the flavor of the $B_s$ at production is determined by studying inclusive properties of the event.