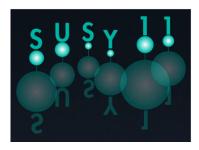
## Supersymmetry 2011 (SUSY11)



Contribution ID: 516 Type: not specified

## First two-sided limit for the Bs-> mu+mu- decay rate

Thursday, 1 September 2011 14:50 (20 minutes)

We report the latest results of a CDF search for B->mu+mu- decays using 6.9 fb^-1 of data. Doubled statistics with respect to the previous iteration and several analysis improvement provide results that are among the most sensitive from a single-experiment to date. We observe an excess of Bs candidates, whose probability to be produced by background processes alone is 0.27%.

We determine  $4.6\,10^{\circ}-9 < Br(Bs -> mu + mu -) < 3.9\,10^{\circ}-8$  at the 90% CL. A search of B0 decays is shown as well.

Presenter: Dr HERNDON, Matthew

**Session Classification:** Parallel Session 9