

Abstract Submitted
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Search for $B_s^0 \rightarrow \mu^+\mu^-$ at D0 MICHELLE PREWITT, Rice University,
D0 COLLABORATION — In this talk we present an update of the search for
 $B_s^0 \rightarrow \mu^+\mu^-$ using the full D0 data set, $\sim 11 \text{ fb}^{-1}$. In this analysis, the backgrounds
have been significantly reduced by adding isolation variables and reconstructing
additional vertices near the B_s^0 decay vertex. Other changes from the previous D0
result include the addition of 4 fb^{-1} of additional data and the use of a Boosted
Decision Tree to discriminate between signal and background.

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