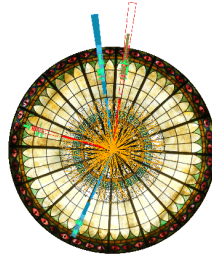


DIS 2015 - XXIII. International Workshop on Deep-Inelastic Scattering and Related Subjects

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Search for the $Z_b(10610)$ and the $Z_b(10650)$ in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV

We present a search for the $Z_b(10610)$ and the $Z_b(10650)$ using the decay $Z_b \rightarrow Y(nS)\pi^\pm$ where $Y(nS) \rightarrow \mu\mu$ in 10.4 fb^{-1} of $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV collected by the D0 experiment during Run II of the Tevatron collider. Sensitivity to the production of Z_b is demonstrated and the results of the search will be presented for the first time.

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