



Contribution ID: 654

Type: talk

## Measurement of $t\bar{t}$ production cross section

*Thursday, July 23, 2015 3:24 PM (18 minutes)*

We present the most recent measurements of the cross section for pair and single production of the top quark with the D0 detector at the Tevatron proton-antiproton collider. Measurements use the full D0 Run II data corresponding to an integrated luminosity of  $9.7 \text{ fb}^{-1}$ . We also discuss the measurements of differential cross section distributions of top quark pairs in the lepton plus jets channel.

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**Session Classification:** Top and Electroweak Physics

**Track Classification:** Top and Electroweak Physics