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## Measurement of the \phi\_{\eta}\* distribution of muon pairs with masses between 30 and 500 GeV in 10.4 fb-1 of p\bar{p} collisions

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We present a measurement of the distribution of the variable  $\phi = 1.4 for muon pairs with masses between 30 and 500 GeV, using the complete Run II data set collected by the D0 detector at the Fermilab Tevatron proton-antiproton collider. This corresponds to an integrated luminosity of 10.4 fb^{-1} at <math>\phi = 1.96 feV$ . The data are corrected for detector effects and presented in bins of dimuon rapidity and mass. The variable  $\phi = 1.96 feV$ . The data are the same physical effects as the  $\phi = 1.96 feV$  boson transverse momentum, but is less susceptible to the effects of experimental resolution and efficiency. These are the first measurements at any collider of the  $\phi = 1.66 feV$  distributions for dilepton masses away from the  $\phi = 1.66 feV$  rightarrow  $\phi = 1.66 feV$  boson mass peak. The data are compared to QCD predictions based on the resummation of multiple soft gluons.

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