

Studies of initial state radiations in Drell-Yan events from ppbar collision at 1.96TeV

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We present the studies of initial state radiations (ISR) in Drell-Yan events from ppbar collisions at $\sqrt{s}=1.96\text{TeV}$ with CDF Run II data. ISR from hadron collisions plays an important role in jet physics, which has an impact on precision measurements and searches for new physics. We develop a systematic way to study the ISR effect using Drell-Yan events. The truncated mean of the dilepton transverse momentum distribution is found to have a logarithmic slope as a function of dilepton invariant mass square. This logarithmic slope can be used to control ISR effect in the SM processes and new physics processes.

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