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Z boson property at Tevatron: angular coefficients and Afb of Drell-Yan process

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We report on the first measurement of the angular distribution of final state lepton and also the forward and backward asymmetry (Afb) which is sensitive to Weinberg angle in $p\bar{p} \rightarrow \gamma^*/Z \rightarrow \ell^+\ell^- + X$ events produced at $\sqrt{s} = 1.96\text{TeV}$. The data sample collected by the CDF II detector.

The angular distributions are studied as a function of the transverse momentum of the lepton pair. The Lam-Tung relation which is only valid for a spin-1 description of the gluon is also tested.

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