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Analysis of $Z \rightarrow l+l-$ Polarization at CMS

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With approximately 35/pb of LHC proton-proton collision data collected by CMS we study the Drell-Yan process $q\bar{q} \rightarrow Z \rightarrow l+l-$. Differential cross sections with respect to the invariant mass, rapidity, and transverse momentum are presented. The forward-backward asymmetry is measured as a function of the di-lepton invariant mass, and an analysis of the fully differential distribution leads to the measurement of the Weinberg weak-mixing angle.

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