

Measurement of Angular Coefficients in Drell-Yan process with the CMS experiment at the LHC

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The main subject of my research is the Drell-Yan process, in particular measurement of the polarization angular coefficients of Z boson which is sensitive to $(V - A)$ structure of weak interactions and can be indicators of effects from higher orders and QCD twists, as well as the nontrivial QCD vacuum structure. Also measurement of these coefficients is important for subsequent precision measurement of parameters of the electroweak model at the LHC, such as the sine of Weinberg electroweak mixing angle $\sin^2 \theta_W$ and the W boson mass.

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