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Z-bozon polarization study with the CMS experiment at the LHC

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The Drell-Yan process is extremely important for the physics of hadron colliders. Measuring its characteristics is a critical test of the Standard Model at new energies. In particular, the coefficients of the harmonic polynomials describing the angular distributions of the leptons emission are sensitive to the (V - A) structure of weak interactions and can be indicators of the higher orders effects and QCD twists, as well as the nontrivial QCD vacuum structure, reflected in the correlation of parton spins and their nonzero momentum in the initial state. Modern experimental data at the Large Hadron Collider make it possible to significantly expand the range of the transferred 4-momenta to several TeV, which opens up new possibilities to search for physics beyond the Standard Model.

Summary

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