

Dependence of the angular coefficients of J/ψ mesons A_i on the transverse momentum in pp collisions at $\sqrt{s_{NN}} = 10$ GeV using the Pythia model

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The angular distributions of Drell-Yan lepton pairs allow to determine precisely the dynamics of vector boson production in quantum chromodynamics. The dependence of the angular coefficients A_i on the transverse momentum of J/ψ mesons were obtained under the conditions of the first stage of the SPD experiment using the Pythia generator. The J/ψ mesons produced in pp collisions at $\sqrt{s_{NN}} = 10$ GeV and decaying into a pair of muons were used in the analysis. The analysis is performed in the full phase space of decay muons. The angular coefficients are calculated in the J/ψ mesons Collins-Soper reference frame.

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