

Single-spin transverse asymmetry in charged hadron production in $\sqrt{s}=200$ GeV p+p collisions at PHENIX

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The first polarized proton collisions were recorded at the Relativistic Heavy Ion Collider (RHIC) at Brookhaven National Laboratory during the 2001-2002 run. From this run at $\sqrt{s}=200$ GeV, the PHENIX experiment measured the absolute cross section and the transverse single-spin asymmetries for several channels. In this talk, we report on the analysis of the charged hadrons at mid-rapidity with p_T between 2 and 10 GeV as measured with the PHENIX central arm spectrometer using both the minimum bias and the newly implemented electromagnetic calorimeter triggers. These data extend the p_T range of the existing data significantly and will further our understanding of transverse spin asymmetries, including the possible interpretation in terms of nucleon transversity with the Collins-Heppelmann effect.