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HERMES results on transverse target single-spin asymmetries in inclusive electroproduction of charged pions and kaons

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Single-spin asymmetries were investigated in inclusive electroproduction of charged pions and kaons from transversely polarized protons at the HERMES experiment. The asymmetries were studied as a function of the azimuthal angle ψ about the beam direction between the target-spin direction and the hadron production plane, the transverse hadron momentum p_T relative to the direction of the incident beam, and the Feynman variable x_F . The $\sin \psi$ amplitudes are positive for π^+ and K^+ , slightly negative for π^- and consistent with zero for K^- , with particular p_T but weak x_F dependences. Especially large asymmetries are observed for two small subsamples of events, where also the scattered electron was recorded by the spectrometer.

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