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SSA in $ep\uparrow \rightarrow hX$ and contribution of quasi-real photon

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We present an updated phenomenological analysis on transverse Single-Spin Asymmetries (SSAs) for inclusive hadron production in lepton-proton scattering. Adopting a transverse momentum dependent approach, we focus on the role of quasi-real (Weizsacker-Williams) photon exchange, showing its relative contribution to SSAs. Then, using the Sivers and the transversity distributions and the Collins function as extracted from fits to the SSAs for SIDIS and $e+e^-$ processes, we show new predictions and comparison with data. The data description shows a general improvement with respect to the previous leading order analysis. Predictions for unpolarized cross sections and SSAs for ongoing and future experiments are also given.

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