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Modeling baryon production in polarized string fragmentation

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We present an extension of the string+3P0 model of hadronization that includes the production and decays of polarized spin-1/2 baryons. The new model predicts: a Collins effect for baryon emission in transversely polarized quark fragmentations, the transverse spin transfer from the quark to the baryon, a baryon transverse polarization with respect to the production plane in unpolarized quark fragmentations. The latter effect emulates the polarizing TMD FF of quarks to baryons.

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