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Description of Collins asymmetries in e+e-annihilation with a Monte Carlo event generator

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The string+3P0 model of hadronization has been recently applied to the fragmentation of a string stretched between a quark-antiquark pair with correlated spin states. The pair is assumed to be created in e+e- annihilation via the exchange of a virtual photon. To perform simulations of e+e- events, the model has been implemented in the Pythia Monte Carlo event generator by extending the StringSpinner package.
Using StringSpinner, we have performed simulations of e+e- events at the center of mass energy of 10.6 GeV. The obtained results for the Collins asymmetries for back-to-back hadrons as well as their comparison with data from the Belle and BaBar collaborations are discussed.

Primary author: KERBIZI, Albi (Istituto Nazionale di Fisica Nucleare)

Presenter: KERBIZI, Albi (Istituto Nazionale di Fisica Nucleare)

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