Sar WorS 2025 - 4th Sardinian Workshop on Spin



Contribution ID: 7

Type: not specified

A new extraction of di-hadron fragmentation functions, from BELLE e^+e^- data at $\sqrt{S} = 10.58$ GeV.

Wednesday, 11 June 2025 12:00 (35 minutes)

Di-hadron fragmentation functions represent an alternative method for extracting the transversity PDF, complementary to the Collins effect.

However, data on unpolarized inclusive cross sections for charged di-hadron production have only become available recently.

In this talk, I will present a new extraction of the unpolarized di-hadron fragmentation functions up to NNLO accuracy, carried out in collaboration with Paris-Saclay, using both a model-inspired and a neural network parameterization.

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Session Classification: Fragmentation functions: Phenomenology