

XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects



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Transversity through Dihadron: a constrained fit

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We present a constrained analysis of the valence transversity Parton Distribution Functions from dihadron production in semi-inclusive DIS. While usual extractions of the transversity distributions rely explicitly on the fulfilment of the Soffer bounds, our analysis releases that implicit restriction to implement further explicit constraints through the Lagrange multipliers method. The results are quantitatively comparable to previous analyses in the kinematical range of data ; the qualitative impact of the chosen fitting strategy translates into an increased flexibility in the functional form. We will discuss the resulting tensor charge as compared to other phenomenological and lattice determinations.

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