## **TRANSVERSITY 2017**



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## First extraction of transversity from a global fit

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We present the first extraction of the transversity distribution in the frame- work of collinear factorization based on the global analysis of pion-pair pro- duction in deep-inelastic scattering off transversely polarized targets and in proton-proton collisions with one transversely polarized proton. The extraction relies on the knowledge of dihadron fragmentation functions, which are taken from the corresponding electron-positron annihilations. This analysis starts a new phase, deepening our knowledge of the chiral-odd transversity to the same qualitative level as the chiral-even spin averaged and helicity distributions. The improved accuracy of the calculated nucleon tensor charge opens a new way to explore possible effects from new physics in high-precision low-energy nucleon/nuclear cross sections.

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