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Transversity and tensor charge: role of the Soffer Bound

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The transversity and the nucleon tensor charge are fundamental quantities in hadron physics as well as for our comprehension of the nucleon structure. Some tension between the values of the tensor charge, as computed on the basis of phenomenological extractions and lattice QCD simulations, has been observed.

By means of an explicit example, we present how relaxing some onstraints in phenomenological fits, related to the Soffer Bound, allows for a more accurate exploration of the parameter space and, eventually, to ease the tension between lattice and phenomenology for the nucleon tensor charge estimates.

Primary author: Dr FLORE, Carlo (Istituto Nazionale di Fisica Nucleare)

Co-authors: PROKUDIN, Alexey (JLab); D'ALESIO, Umberto (Istituto Nazionale di Fisica Nucleare)

Presenter: Dr FLORE, Carlo (Istituto Nazionale di Fisica Nucleare)