Contribution ID: **15** Type: **Talk in workshop 1 "Non-perturbative approaches for hadron structure from low to high energy"**

New Results on 2N and 3N Short-Range Correlations

Tuesday 28 October 2025 18:00 (25 minutes)

The existence of two-nucleon short-range correlations (2N SRCs) has been well established by a series of experiments at SLAC and Jefferson Lab. The inclusive measurements showed a universal behavior in A/D cross section ratios of quasielastic scattering at x>1 and moderate Q2 yielding a constant value. In these kinematics mean field contributions fall off rapidly and 2N SRC contributions dominate. In even higher x-values (x>2), it was argued that contributions from 3N SRCs might dominate. Existing experimental searches for 3N SRCs have yet to provide unambigious and significant evidence for them. A recent 12 GeV Jefferson Lab experiment measured the quasi-elastic scattering off various nuclei in the kinematic region that is sensitive to the 3N SRCs. This talk will discuss the state of the field and present new results on 2N and 3N SRCs.

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Session Classification: Parallel Workshop 1