

New Results on Three-Nucleon Short Range Correlations

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Three nucleon short range correlations are one of the most elusive structures in nuclei, whose observation and the evaluation of their properties may have a significant impact on our understanding of the dynamics of super-dense nuclear matter that may exist in the cores of Neutron Stars. We discuss kinematic conditions and the observables that are most optimal for probing 3N SRCs in inclusive electro-nuclear processes and make predictions about the inherent relation between 2N and 3N SRCs. We demonstrate that these predictions are in reasonable agreement with the limited number of available high energy data, indicating on the possible first observation of 3N SRCs in the nuclei.

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