

High-Momentum components of the nuclear wave function: short range correlations, EMC effect, and the tensor part of the N-N Interaction

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The combination of inclusive and exclusive electron scattering data from JLab in kinematic regimes that were not previously accessible, together with the analysis and interpretation of older data from hadronic reactions at BNL, is finally revealing the behaviour of short-range nucleon-nucleon correlations in nuclei. The most significant experimental finding is that short-range correlated np pairs are much more prevalent than pp or nn pairs. I'll review these results and discuss them in terms of short-range tensor force dominance. I'll also discuss the connection to the EMC effect.