

XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects



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Probing SRCs and the origin of the EMC effect with facilities around the world

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Pairing of nucleons at short-range is a universal phenomenon in nuclei, and has far-reaching implications outside of understanding traditional nuclear structure. Short-range correlations (SRCs) have been extensively studied over the past few years, using facilities around the world. Although this remarkable progress has brought deep, new insight into the nature of SRCs, there are still many unanswered questions. One of the most important and unresolved questions is how the EMC effect relates to these high-density, highly virtual nucleon states.

In my talk, I will present a broad overview of recent measurements of SRCs, focusing on our current work that illuminates the role of SRCs to the EMC effect. I will also discuss how we will further probe this connection in upcoming measurements and at future facilities, and how these future experiments will help us finally understand the EMC effect.

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