



Contribution ID: 218

Type: **not specified**

Tagged Short-Range Correlations for Medium to Heavy Ions

Saturday 24 August 2019 13:05 (25 minutes)

Understanding short-range correlations between pairs of nucleons in the nucleus (SRC) is an important nuclear physics topic that can address longstanding mysteries in nuclear physics such as the behavior of dense nuclear systems and the modification of parton distributions. As a collider and with a large acceptance detector, the EIC has unique capabilities that are complementary to previous SRC studies, most notably the ability to more fully reconstruct the final state. Making use of the BeAGLE (Benchmark eA Generator for LEptonproduction) simulation code as well as recent advances in SRC phenomenological parameterizations, we are exploring this potential and determine requirements for beam energies and detectors. In my talk, I will present our current status on simulations for tagged SRCs at an EIC.

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Session Classification: Parallel Session