

Using muons from backscattered photons on targets for various studies at the EIC

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MuIC Phenomenology & Exploring QCD in extreme kinematic regions

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The MuIC will enable precision measurements across a broad kinematic region. This will allow us to extend our explorations into extreme areas of QCD, pushing our perturbative predictions into the non-perturbative regime. These investigations include dense quark and parton distributions at low x and Q , which exhibit recombination and saturation. Such high-precision measurements will help us fully characterize the various manifestations of the QCD theory.

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