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Measuring gluon polarization in the nucleon via open charm production at the EIC

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To understand gluon polarization inside a polarized nucleon is one of the most important physics goals of the future EIC proposed at Brookhaven National Laboratory. In addition to the extraction of such information by a QCD fit on the polarized g1 structure functions, another direct measurement on gluon polarization via double spin asymmetries in the open charm production through photon-gluon fusion process is proposed. In this talk, the idea of such measurement and simulation studies at the EIC will be presented.

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