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Probing the neutron structure via polarized ^{3}He with double-tagging at EIC[1] IVICA FRISCIC, MIT-LNS, EIC Center at JLab, DIEN THI NGUYEN, MIT-LNS, JLab, JACKSON REEVES PYBUS, MIT-LNS, EIC Center at JLab — In several electron scattering experiments, polarized ^{3}He plays a role of an effective polarized neutron target and enable us to study the spin-dependent structure of a neutron. With simultaneous detection of two spectator protons (double-tagging) it is possible to perform the spin-dependence study with minimization of nuclear effects. Here we present a study of the electron scattering from polarized ^{3}He with double tagging at future Electron-Ion Collider (EIC) at two representative kinematics in terms of energies of colliding electron and ion beams with focus on two different regimes of ^{3}He breakup: short-range correlations (SRC) and 3-body-breakup in the mean field (3BBU-MF).

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