

XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



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Exclusive electroproduction of a charmed meson at EIC

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Charged current events in an exclusive electroproduction process have not been much discussed up to now. The reason is simple as the smallness of the weak coupling prevents exclusive cross-sections from being large enough to allow sufficient counting rates at existing electron-nucleon facilities. The very high luminosity anticipated at planned high energy electron ion colliders should open this physics domain to a detailed investigation of various interesting channels. We calculate the leading order amplitude for exclusive production of a D_s pseudoscalar and D_s^* vector charmed meson on an unpolarized nucleon and investigate if this process may be accessed at future electron-ion colliders.

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