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Study of the ^{4}He(e, e′p) reaction up to high missing momenta and energies. Search for N-N Short Range Correlations[1] FATIHA BENMOKHTAR, Christopher Newport University — The ^{4}He(e, e′p) reaction has been recently measured up to high missing momenta and missing energies; p_m of 1 GeV/c and E_m of 200 MeV, respectively, in Hall A of Jefferson Lab., part of a rich short range correlation experimental program. The continuum region is under study in order to investigate high-nucleon-momenta components in the ^{4}He wave function with the absorption of virtual photons on nucleons correlated in pairs in the ^{4}He ground state. The measurements were performed at $x_B = 1.25$ and at a fixed transferred four-momentum $Q^2 = 2(GeV/c)^2$. Physics goals will be discussed and analysis status and strategy will be presented.

[1]For the Jefferson Lab Hall-A Collaboration

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