

Abstract Submitted
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Deuteron Momentum Distributions at Large Momentum Transfers¹ WERNER BOEGLIN, Florida Intl Univ, JEFFERSON LAB HALL
A COLLABORATION — The exclusive deuteron electro-disintegration was studied at four-momentum transfers of 0.8, 2.1 and 3.5 GeV/c² and for missing momenta up to 600 MeV/c. Reduced cross sections as a function of missing momenta were determined for several fixed neutron recoil angles. This new, extensive data set makes it possible to identify kinematic regions where final state interactions are small and the $d(e,e'p)n$ cross section is closely related to the underlying high momentum structure of the deuteron. Experimental momentum distributions for different recoil angles and momentum transfers will be presented and compared to modern calculations.

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