

Abstract Submitted  
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**The  $D(e,e'p)$  reaction at GeV energies<sup>1</sup>** SABINE JESCHONNEK,  
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University & Jefferson Lab — Currently, several data sets on  $D(e,e'p)n$  reactions,  
taken at Jefferson Lab, are analyzed or have been published recently. A solid the-  
oretical description is necessary in order to understand these data and extract all  
possible information, both on the reaction mechanism and the nuclear ground state.  
Final state interactions and relativistic treatment of the current operator are essen-  
tial. We present the results of a new calculation with a relativistic wave function  
for the initial deuteron state. We will discuss the sensitivity of various observables  
to the employed parametrization of the nucleon-nucleon scattering amplitude in the  
final state, and investigate several observables at high missing momentum.

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