## Abstract Submitted for the DNP16 Meeting of The American Physical Society

Factorization Breaking of  $A_d^T$  for polarized deuteron targets in a relativistic framework SABINE JESCHONNEK, Ohio State Univ - Lima, J. W. VAN ORDEN, Old Dominion University Jefferson Lab — We discuss the possible factorization of the tensor asymmetry  $A^T d$  measured for polarized deuteron targets within a relativistic framework. We define a reduced asymmetry and find that factorization holds only in plane wave impulse approximation and if p-waves are neglected. Our numerical results show a strong factorization breaking once final state interactions are included. We also compare the d-wave content of the wave functions with the size of the factored, reduced asymmetry and find that there is no systematic relationship of this quantity to the d-wave probability of the various wave functions.

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