

Abstract Submitted  
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**Studies of Transverse Momentum Distributions for Pions Produced in SIDIS With CLAS12**<sup>1</sup> GIOVANNI ANGELINI, George Washington University, CLAS COLLABORATION — The data collected by the CLAS12 - the large acceptance detector located in the Hall B of the Jefferson Laboratory - allow to obtain a fully multidimensional description of Semi Inclusive Deep Inelastic Scattering (SIDIS) in a wide kinematic range. In this talk, we focus on the study of transverse momentum distribution from pion electroproduction data collected by CLAS12 collaboration on hydrogen target with a 10.6 GeV energy electron beam. The multiplicity of pions will be shown, and phase space effects will be discussed with respect the extraction of the intrinsic partonic transverse momentum.

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