

Abstract Submitted  
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**Wire Cell Reconstruction Studies for Liquid Argon TPC<sup>1</sup>** ORGHO NEOGI, Univ of Iowa — Wire Cell is an algorithm that can be used to reconstruct neutrino interactions in liquid argon time projection chamber (LArTPC) detectors in which the charge readout is performed by wire planes. We have performed simulations using this reconstruction algorithm for the general case of arbitrary number of wire planes with user defined geometry. This algorithm has been adapted to handle wires wrapped around the Anode Plane Assembly (APA) and can accept a two sided geometry. We use our simulation to calculate efficiency and purity of the reconstruction for some sample charge distributions that might result from neutrino interactions.

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