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Title:	Measurement of quasielastic-like neutrino scattering at ⟨Ev⟩~3.5 GeV on a hydrocarbon target
Authors:	Jena, Satyajit (/jspui/browse?type=author&value=Jena%2C+Satyajit)
Keywords:	Hydrocarbon Quasielastic Hypothesis Neutrino
Issue Date:	2019
Publisher:	American Physical Society
Citation:	Physical Review D,99(1)
Abstract:	MINERvA presents a new analysis of neutrino induced quasielastic-like interactions in a hydrocarbon tracking target. We report a double-differential cross section using the muon transverse and longitudinal momentum. In addition, differential cross sections as a function of the square of the four-momentum transferred and the neutrino energy are calculated using a quasielastic hypothesis. Finally, an analysis of energy deposited near the interaction vertex is presented. These results are compared to modified genie predictions as well as a NuWro prediction. All results use a data set produced by 3.34×10^{20} protons on target creating a neutrino beam with a peak energy of approximately 3.5 GeV.
Description:	Only IISERM authors are available in the record.
URI:	https://journals.aps.org/prd/abstract/10.1103/PhysRevD.99.012004 (https://journals.aps.org/prd/abstract/10.1103/PhysRevD.99.012004) http://hdl.handle.net/123456789/2388 (http://hdl.handle.net/123456789/2388)
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