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High Energy Physics - Phenomenology

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(Submitted on 27 Jun 2011 (v1), last revised 2 Dec 2011 (this version, v2))

The nucleon axial mass and the

Nucleus Scattering problem

J. Nieves, I. Ruiz Simo, M.J. Vicente Vacas

MiniBooNE Quasielastic Neutrino-

The charged-current double differential neutrino cross section, measured by the MiniBooNE Collaboration, has been analyzed using a microscopical model that accounts for, among other nuclear effects, long range nuclear (RPA) correlations and multinucleon scattering. We find that MiniBooNE data are fully compatible with the world average of the nucleon axial mass in contrast with several previous analyses which have suggested an anomalously large value. We also discuss the reliability of the algorithm used to estimate the neutrino energy.

Comments:6 pages and 3 figures. This version matches accepted version for<br/>publication in Physics Letters BSubjects:High Energy Physics - Phenomenology (hep-ph); Nuclear<br/>Theory (nucl-th)Cite as:arXiv:1106.5374 [hep-ph]<br/>(or arXiv:1106.5374v2 [hep-ph] for this version)

## **Submission history**

From: Ignacio Ruiz [view email] [v1] Mon, 27 Jun 2011 12:32:55 GMT (69kb) [v2] Fri, 2 Dec 2011 15:00:22 GMT (71kb)

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