

Abstract Submitted
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Progress in 3N Response Functions Using the LIT Technique EDWARD TOMUSIAK, University of Victoria, VICTOR EFROS, Kurchatov Institute, WINFRIED LEIDEMANN, GIUSEPPINA ORLANDINI, University of Trento — Our earlier results ¹ for the longitudinal response functions of ³He and ³H began to display frame dependence at $q=500$ MeV/c. This is a manifestation of the non-relativistic framework of our calculations. We have found a method of extending such calculations to regions of higher q while drastically reducing the frame dependence. The method hinges on the choice of a particular frame and/or the details of the kinematical input. Results for the longitudinal response will be shown for q up to 700 MeV/c. In addition we will show our results to date for the transverse response functions of the trinucleons.

¹V.D.Efros, W.Leidemann, G.Orlandini, E. Tomusiak, Phys.Rev. C69 (2004) 044001

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