

Neutrino-induced coherent pion production off nuclei – revisited

Tuesday, May 19, 2009 6:30 PM (2 hours)

It is pointed out that so far all theoretical estimates of coherent pion production off nuclei induced by neutrinos rely on the 'local approximation' well known in photonuclear physics. The effects of dropping this approximation are discussed. It is found that in a plane wave approximation for the pion the local approximation overestimates the coherent neutrino-induced pion production on nuclei.

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Session Classification: Poster session and cocktail reception

Track Classification: Poster session