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Investigation of the time-reversal invariance in pd radiative capture reaction

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Experimental differential cross sections of proton deuteron radiative capture and the photo-disintegration of ^3He are compared at the same center of mass angle as a function of energy. The proton deuteron radiative capture (PDRC) differential cross sections are multiplied by an appropriate detailed-balance factor. For $E_\gamma > 50$ MeV the PDRC results have good agreement with the inverse reaction results which is a test of time-reversal invariance in the electromagnetic interaction. For $30 < E_\gamma < 50$ MeV there is no agreement between the PDRC and the inverse reaction results.

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