2 H(11 C, 12 N) 2011Le25

	History		
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, J. E. Purcell and C. G. Sheu	NP A968, 71 (2017)	1-Jan-2017

2011Le25: XUNDL dataset compiled by TUNL, 2011.

A beam of 150 MeV ¹¹C was produced at the Berkeley cyclotron by injecting radioactive ¹¹CO₂ into the cyclotron's ECR source. The beam impinged on a 2.22 mg/cm² CD₂ target and ¹²N reaction products were detected for 0° < $\theta_{c.m.}$ <180°. A DWBA analysis of the ¹²N_{g.s.} angular distribution was used to deduce the ANC_{*p*1/2}=1.56 fm⁻¹ 23. The effective ANC=ANC_{*p*1/2}+ANC _{*p*3/2}=1.83 fm⁻¹ 27 is deduced. Discussion of the astrophysical rate is also given.

¹²N Levels

 $\frac{\mathrm{E(level)}}{\mathrm{0}} \quad \frac{\mathrm{J}^{\pi}}{\mathrm{1}^{+}}$