

$^{14}\text{N}(\text{n},2\text{n})$

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu and J. E. Purcell		NDS 198,1 (2024)	1-Aug-2024

[1949Kn25](#): $^{14}\text{N}(\text{n},2\text{n})$ $E_{\text{n}} \approx 90$ MeV; measured activation σ .

[1951Co50](#): $^{14}\text{N}(\text{n},2\text{n})$ $E_{\text{n}} \approx 0.4\text{-}18$ MeV white source; measured activation.

[1961Ra06](#): $^{14}\text{N}(\text{n},2\text{n})$ $E_{\text{n}} \approx 14.4$ MeV; measured activation cross section and lifetime $T_{1/2} = 12.3$ min $\pm 5.4\%$ at Argonne.

[1965Bo42](#): $^{14}\text{N}(\text{n},2\text{n})$ $E_{\text{n}} = 12.6\text{-}18.8$ MeV; measured activation cross section and lifetime $T_{1/2} = 10.05$ min 5.

[1965Eb01](#): $^{14}\text{N}(\text{n},2\text{n})$ $E_{\text{n}} \approx 14.7$ MeV; measured ^{13}N decay and deduced $T_{1/2} = 9.96$ min 2; compared with prior values.

[1965Go18](#): $^{14}\text{N}(\text{n},2\text{n})$ $E_{\text{n}} \approx 14.1$ MeV; measured cross section.

[1965Gr41](#): $^{14}\text{N}(\text{n},2\text{n})$ $E_{\text{n}} \approx 14.8$ MeV; measured cross section.

[1967Cs02](#): $^{14}\text{N}(\text{n},2\text{n})$ $E_{\text{n}} \approx 14.7$ MeV; measured cross section.

[1967Pa27](#): $^{14}\text{N}(\text{n},2\text{n})$ $E_{\text{n}} \approx 14.7$ MeV; measured cross section.

[1973Ro29](#): $^{14}\text{N}(\text{n},2\text{n})$ $E_{\text{n}} \approx 14.8$ MeV; measured cross section.

[1978Ry02](#): $^{14}\text{N}(\text{n},2\text{n})$ $E_{\text{n}} = 14.7\text{-}19.0$ MeV; measured cross section via activation technique.

[1989KaYR](#): $^{14}\text{N}(\text{n},2\text{n})$; counted 511 annihilation γ ray. Measured $T_{1/2} = 9.962$ min 20.

[2001Sa27](#): $^{14}\text{N}(\text{n},2\text{n})$ $E_{\text{n}} = 13.4\text{-}14.9$ MeV; measured cross section via activation techniques.

[2011Ha04](#): $^{14}\text{N}(\text{n},2\text{n})$ $E_{\text{n}} = 13.4\text{-}14.9$ MeV; global analysis of reaction systematics.

[2023Te01](#): $^{14}\text{N}(\text{n},2\text{n})$ $E_{\text{n}} = 14\text{-}15$ MeV; developed empirical formalism for σ in the $14 \leq A \leq 241$ region.

 ^{13}N Levels

E(level)	T _{1/2}	Comments
0	9.962 min 20	T _{1/2} : From (1989KaYR). See also (1961Ra06 , 1965Bo42 , 1965Eb01).