

$^{12}\text{C}(\text{p},\text{P}'\text{P}), ^{12}\text{C}(\text{p},\text{P}'\alpha)$ 1997Te14

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

1969Ep01: $^{12}\text{C}(\text{p},\text{p}\alpha)^8\text{Be}$, $^{12}\text{C}(\text{p},2\text{p})$ E=57 MeV, measured $\sigma(E_{\text{p}},E_{\alpha})$; deduced reaction mechanism. ^{12}C deduced levels, J, π , proton decay, T.

1997Te14: $^{12}\text{C}(\text{p}, \text{p}'\text{p}), (\text{p},\text{p}'\alpha)$ E=156 MeV, measured E_{p} , I_{p} , $\sigma(\theta, E_{\text{p}})$. ^{12}C deduced small continuum nonresonant contribution.

 ^{12}C Levels

E(level) [†]	J π	T _{1/2}	Comments
15.38×10 ³ 5	2 ⁺	2.8 MeV 3	
16.10×10 ³ 5	2 ⁺		
16.62×10 ³ 5	2 ⁻	280 keV 30	
18.29×10 ³ 5	2 ⁻	486 keV 50	
19.39×10 ³ 5	2 ⁻	520 keV 50	
19.67×10 ³ 5	4 ⁻	490 keV 50	
20.58×10 ³ 5		440 keV 45	E(level): See also E _x =20.3 MeV 3 from $^{12}\text{C}(\text{p},\text{p}'\text{p})$ (1969Ep01).
21.61×10 ³ 5	2 ⁺	1.45 MeV 15	
21.99×10 ³ 5	1 ⁻	550 keV 50	
22.72×10 ³ 5	1 ⁻	1.20 MeV 12	
23.57×10 ³ 5	1 ⁻	238 keV 25	
24.04×10 ³ 5	1 ⁻	659 keV 70	
24.38×10 ³ 5	2 ⁺	671 keV 70	

[†] From (1997Te14).