^{15}N(p,X)   **1993Ti07**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, D. R. Tilley, H. R. Weller and C. M. Cheves	NP 564 1 (1993)	31-Dec-1992

For additional comments see 1993Ti07.

^{16}O Levels

E(level)	J^{π}	$T_{1/2}$	Comments
12442. 4	1^-	103 keV 4	T=0; Γ_p=0.9 keV 1; $\Gamma_{\gamma 0}$=12 eV 2
			$\Gamma_{\alpha 0}$=102 keV 4; $\Gamma_{\alpha 1}$=0.025 keV; $\Gamma_{\gamma 1}$=0.12 eV 4.
12530. 1	2^-	0.097 keV 10	T=0; Γ_p=0.016 keV 3; $\Gamma_{\gamma 0}$=33×10^{-3} eV 5
			$\Gamma_{\alpha 1}$=0.092 keV 10; $\Gamma_{\gamma 1}$=2.1 eV 2.
12793. 7	0^-	38 keV 38	T=1; Γ_p=40 keV
12968.6 3	2^-	1.38 keV 4	T=1; Γ_p=1.04 keV 7; $\Gamma_{\gamma 0}$=34×10^{-3} eV 9
			$\Gamma_{\alpha 1}$=0.30 keV 6.
13091. 10	1^-	131 keV 10	T=1; Γ_p=100 keV; $\Gamma_{\gamma 0}$=32 eV 5
			$\Gamma_{\alpha 0}$=40 keV.
13.10×10^3 15	2^+		$\Gamma_p \Gamma_{\alpha 0}$=500 keV^2.
13262. 3	3^-	21.1 keV 9	T=1; Γ_p=4.1 keV
			$\Gamma_{\alpha 1}$=8.2 keV 11.
13664. 3	1^+	64 keV 3	T=0; Γ_p=10 keV; $\Gamma_{\gamma 0}$<1 eV
			$\Gamma_{\alpha 1}$=59 keV 6.
13900. 20		84 keV 2	Γ_p=0.5 keV
13982. 3	2^-	22 keV 2	
14921. 6	2^+	52 keV 5	Γ_p=20 keV 3
			$\Gamma_{\alpha 0}$=1.5 keV; $\Gamma_{\alpha 1}$=30 keV.
15.10×10^3	0^+	309 keV 93	Γ_p=12 keV
			$\Gamma_{\alpha 0}$=152 keV; $\Gamma_{\alpha 1}$=163 keV.
15186. 11	2^-	63 keV 4	$\Gamma_{\alpha 1}$=7 keV; Γ_p/Γ=0.78.
15.26×10^3	2^+	295 keV 93	T=(0); Γ_p=15 keV
			$\Gamma_{\alpha 0}$=12 keV; $\Gamma_{\alpha 1}$=182 keV.
15406. 8	3^-	122 keV 17	Γ_p=15 keV 5
			$\Gamma_{\alpha 0}$=103 keV; $\Gamma_{\alpha 1}$=1 keV.
16200. 90	1^-	581 keV 56	T=0; Γ_p=210 keV 38
16210. 5	1^+	19 keV 3	T=1; Γ_p=7 keV 3; $\Gamma_{\gamma 0}$=3.7 eV 5
			$\Gamma_p \Gamma_{\gamma}/\Gamma$=2.70 eV 25; $\Gamma_{\gamma 1}$=0.44 eV 6.
16349. 12	0^+	61 keV 8	T=0; Γ_p=53 keV 12
16449. 9	1 to 4	24 keV 8	T= 1
			$\Gamma_p \Gamma_{\gamma}/\Gamma$=1.11 eV 24.
16813. 5	3^+	26 keV 4	T=0&1; Γ_p=7 keV 2
			$\Gamma_{\gamma 2}$=1 eV; $\Gamma_{\gamma 3}$=1.2 eV.
17090. 40	1^-	380 keV 40	T=1; Γ_p=270 keV 25
17120. 5	1^+	31 keV 4	T=1; Γ_p=22 keV; $\Gamma_{\gamma 0}$=6.7 eV 10
			$\Gamma_p \Gamma_{\gamma}/\Gamma$=3.90 eV 50; $\Gamma_{\gamma 1}$=1.00 eV 17.
17268. 9	1^-	75 keV 8	T=1; Γ_p=45 keV; $\Gamma_{\gamma 0}$=67 eV
			$\Gamma_{\gamma 3}$=8 eV.
17607. 8	2^+	109 keV 14	T=(1); Γ_p=37 keV 8
17.84×10^3 10	2^-	0.82 MeV 10	Γ_p=0.50 MeV 10
17877. 6	$1^-, 2^-$	24 keV 3	T=1; Γ_p=6 keV
18027. 6	3^-	26 keV 6	T=1; Γ_p=13 keV 3
			$\Gamma_{\alpha 1}$=8.9 keV 32; $\Gamma_{\gamma 1}$=4.8 eV 19; $\Gamma_{p 0}$=7.8 keV 28.
18208. 15	2^+	141 keV 24	Γ_p=33 keV 12
18430. 15	2^+	91 keV 38	Γ_p=11 keV 6
18484. 6	1^-	35 keV 6	Γ_p=17 keV 3
18.78×10^3 10	1^+		T=1; $\Gamma_{\gamma 0}$≥3.6 eV

^{15}N(p,X)   **1993Ti07 (continued)**

^{16}O Levels (continued)

E(level)	J^{π}	$T_{1/2}$	Comments
18979. *9*	4$^-$	8.2 keV *38*	$\Gamma_p/\Gamma \leq 0.5$. T=1 $\Gamma_{\alpha 1}$=0.57 keV *49*; $\Gamma_{\gamma 1}$=7.1 eV *31* $\Gamma_{p\,0}$=0.98 keV *19*.
18990. *30*	1$^+$	≈244 keV	$\Gamma_p \leq$130 keV; $\Gamma_{\gamma 0}$=38 eV $\Gamma_p\,\Gamma_\gamma/\Gamma \geq$1.8 eV.
19.08×10^3	2$^+$	≈121 keV	T=(1); $\Gamma_p \approx$30 keV
19250. *30*	(2, 3)	94 keV	T=(1) $\Gamma_{\gamma 1}$=1.5 eV.
19470. *30*	1$^-$	328 keV	T=1
19893. *7*	3	42 keV *9*	T=1; Γ_p=25 keV *10* $\Gamma_{\gamma 1}$=17 eV *6*.
20412. *17*	1 to 4	188 keV *19*	T=1 $\Gamma_{\gamma 1}$=38 eV; $\Gamma_{\gamma 2}$=38 eV.
20.55×10^3		150 keV	
20945. *20*	1$^-$	300 keV *10*	T=1; $\Gamma_{\gamma 0}$=170 eV $\Gamma_p\,\Gamma_\gamma/\Gamma$=21 eV *1*.
21.50×10^3	1 to 4	122 keV	
21.66×10^3		≤42 keV	T=0
22150. *10*	1$^-$	684 keV *10*	T=1 $\Gamma_p\,\Gamma_\gamma/\Gamma$=488 eV *20*.
22890. *10*	1$^-$	300 keV *10*	T=1; $\Gamma_{\gamma 0}$=120 eV $\Gamma_p\,\Gamma_\gamma/\Gamma$=69 eV *5*; $\Gamma_{\gamma 1}$=27 eV.
24070. *30*	1$^-$	553 keV *38*	T=1 $\Gamma_p\,\Gamma_\gamma/\Gamma$=130 eV *13*.
24760. *60*	(2,4)$^+$	338 keV *56*	T=1; Γ_p=85 keV
25120. *60*	1$^-$	2.95 MeV *30*	T=1 $\Gamma_p\,\Gamma_\gamma/\Gamma$=0.65 keV *12*.
26410. *80*	(2,4)$^+$	530 keV *80*	T=1; Γ_p=122 keV
27.35×10^3 *10*	(2,4)$^+$	0.83 MeV *12*	T=1; Γ_p=206 keV