

$^{22}\text{Ne}(\text{d},\text{n}) \quad 1993\text{Te05,1973Ch07}$

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia [#] , A. Chakraborty ^{##}		NDS 171,1 (2021)	1-Jun-2020

 $J^\pi(^{22}\text{Ne})=0^+$.Other references: [1973Ch07](#), [1967Mu13](#), [1964Pa08](#).[1993Te05](#): $^{22}\text{Ne}(\text{d},\text{n})$ E=25 MeV. Measured $\sigma(\theta)$. FWHM 170-200 keV.[1973Ch07](#): $^{22}\text{Ne}(\text{d},\text{n})$ E=2.5-5.5 MeV. Measured $\sigma(E, En, \theta)$. FWHM 50-320 keV. ^{23}Na Levels

E(level) [†]	L [‡]	(2J+1)C ² S [@]	Comments
0	(2)	(0.33)	(2J+1)C ² S: Other: (1.09) (1973Ch07).
440 <i>10</i>	2	2.91	(2J+1)C ² S: Other: (1.28) (1973Ch07).
2080	(4) [#]	(0.10) [#]	
2390 <i>10</i>	0	0.50	(2J+1)C ² S: Other: 0.28 (1973Ch07).
2980 <i>10</i>	2	1.68	(2J+1)C ² S: Other: 0.69 (1973Ch07).
3680 <i>30</i>	1	0.15	(2J+1)C ² S: Other: 0 (1973Ch07).
3910 <i>30</i>	2	0.39	
4430	(0) [#]	0 [#]	
4780	(4) [#]	(0) [#]	
5380	2 [#]	0.16 [#]	
5740 <i>10</i>	2	0.47	(2J+1)C ² S: Other: 0.20 (1973Ch07).
5940	(1) [#]	0 [#]	
6310 <i>10</i>	0	0.27	(2J+1)C ² S: Other: 0.18 (1973Ch07).
6920 <i>10</i>	1	0.53	(2J+1)C ² S: Other: 0.19 (1973Ch07).
7080 <i>10</i>	1	0.31	(2J+1)C ² S: Other: 0.08 (1973Ch07).
7450 <i>10</i>	(2)	1.62	L: Other: 1 (1973Ch07). (2J+1)C ² S: Other: 0.11 (1973Ch07).
7750	(2) [#]	0.05 [#]	
7890 <i>10</i>	2	0.87	(2J+1)C ² S: Other: 0.40 (1973Ch07).
8300 <i>10</i>	3	0.44	
8420 <i>10</i>	2	0.52	L: Other: 3 (1973Ch07). (2J+1)C ² S: Other: 0.16 (1973Ch07).
8660 <i>10</i>	0	1.16	(2J+1)C ² S: Other: 0.50 (1973Ch07).
8800	0 [#]	0.08 [#]	(2J+1)C ² S: Other: (0.08) (1973Ch07).
8940	3 [#]	(0.24) [#]	
9700 <i>10</i>	2	0.32	
10010 <i>30</i>	2	0.19	
10840 <i>30</i>	(1)	0.35	
10940 <i>10</i>	2	0.42	
11290 <i>10</i>	2	0.71	
11540 <i>10</i>	3	0.49	
11760 <i>10</i>	3	0.40	
11880 <i>10</i>	3	0.24	
14370 <i>10</i>	3		

[†] From [1993Te05](#), except where otherwise noted. Uncertainty 10 keV for prominent peaks and 30 keV for weakly populated peaks.Based on the excitation energy spectrum presented in Fig. 2, evaluators identified possible prominent and weak peaks and assigned the uncertainty. Excitation levels without uncertainty are from [1973Ch07](#).[‡] From [1993Te05](#), except otherwise noted.[#] From [1973Ch07](#).[@] From [1993Te05](#), except where otherwise noted.