

$^{22}\text{Ne}(d,n\gamma)$ 1974Ch57

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

 $J^{\pi}(^{22}\text{Ne})=0^{+}$.1974Ch57: $^{22}\text{Ne}(d,n\gamma)$ E=4.5 MeV. Measured $E\gamma$, $I\gamma$, $n\gamma$ coincidences. ^{23}Na Levels

E(level) [†]	$T_{1/2}$	Comments
0		
440.1 7		
2390.8 5		
2641 4		
2988 5		
6305.5 7		
8666.3 24	116 as 22	$T_{1/2}$: From $\Gamma=3.9$ eV 7 (1974Ch57) – $\Gamma\gamma=3.3$ 6 to g.s.).
8831 4		

[†] From least squares fit to γ -ray energies. $\gamma(^{23}\text{Na})$

$E_i(\text{level})$	E_{γ}	I_{γ}	E_f
2390.8	1950.6 5	34 1	440.1
	2390.6 5	66 1	0
6305.5	3914.3 5	100	2390.8
8666.3	5678 4	4 2	2988
	6024 3	7 3	2641
	6272 4	5 3	2390.8
	8666 3	84 2	0
8831	6437 4	64 10	2390.8
	8835 6	36 10	0

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Level Scheme

Intensities: % photon branching from each level

