

$^2\text{H}(^{24}\text{Ne,P}),(^{26}\text{Ne},^{25}\text{Ne})$ 2007Fe09,2006Ob05

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	R. B. Firestone	NDS 110, 1691 (2009)	1-Feb-2008

2007Fe09: $E(^{24}\text{Ne})=10$ MeV/A. 10^4 particle per second beam, silicon particle detector array, measured particle- γ coincidence with EXOGAM γ -ray detector array.

2006Ob05: $E(^{26}\text{Ne})=9.7$ MeV/A. EXOGAM γ -ray detector array.

Other references: 2005Ca40, 2005Ca44.

 ^{25}Ne Levels

E(level)	J^π [‡]	L [†]	S [†]	Comments
0	1/2 ⁺	0	0.80	
1700 2	(5/2 ⁺)	2	0.15	
2075 25	(3/2 ⁺)	2	0.44	
3321 5	(5/2 ⁺)			
4.02×10^3 ? 10				E(level): Placed with poor γ -ray statistics based on Adopted Levels.

[†] From 2007Fe09.

[‡] From l-transfer and comparison with shell model calculations.

 $\gamma(^{25}\text{Ne})$

E_γ [†]	I_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π
^x 320 2	5 4				
1621 5	42 4	3321	(5/2 ⁺)	1700	(5/2 ⁺)
1700 2	51 7	1700	(5/2 ⁺)	0	1/2 ⁺
2075 25	38 14	2075	(3/2 ⁺)	0	1/2 ⁺
4.02×10^3 10		4.02×10^3 ? 10		0	1/2 ⁺

[†] From 2006Ob05.

^x γ ray not placed in level scheme.

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Level Scheme

Intensities: Type not specified

Legend

- $\longrightarrow$ $I_\gamma < 2\% \times I_\gamma^{max}$
- $\longrightarrow$ $I_\gamma < 10\% \times I_\gamma^{max}$
- $\longrightarrow$ $I_\gamma > 10\% \times I_\gamma^{max}$

