

$^{150}\text{Nd}(^{26}\text{Mg},^{22}\text{Ne}\gamma)$  2005Ke08,2005Ke11

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 127, 69(2015)	1-Apr-2015

2005Ke08,2005Ke11:  $^{26}\text{Mg}$  beam, E=160 MeV, bombarded onto a  $^{150}\text{Nd}$  target of thickness 0.4 mg/cm<sup>2</sup>, deep-inelastic and multi-nucleon transfer reaction;  $\gamma$  rays were detected using an array of 26 Ge clover detectors, 15 Ge cluster detectors, and a BGO array; measured  $E_\gamma$ ,  $\gamma\gamma$  coin, deduced level scheme.

 $^{22}\text{Ne}$  Levels

E(level) <sup>†</sup>	$J^\pi$ <sup>‡</sup>
0	0 <sup>+</sup>
1275.0 10	2 <sup>+</sup>
3358.2 13	4 <sup>+</sup>
4456.2 13	2 <sup>+</sup>
5523.3 17	4 <sup>+</sup>
6312.4 17	6 <sup>+</sup>
7341.6 17	(3,4) <sup>+</sup>
7423.4 20	(5 <sup>+</sup> )
11033.9 20	(8 <sup>+</sup> ,6 <sup>+</sup> )

<sup>†</sup> From least-squares fit to  $\gamma$ -ray energies, assuming  $\Delta E=1$  keV.

<sup>‡</sup> From Adopted Levels.

 $\gamma(^{22}\text{Ne})$ 

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
1098	4456.2	2 <sup>+</sup>	3358.2	4 <sup>+</sup>
1275	1275.0	2 <sup>+</sup>	0	0 <sup>+</sup>
1900	7423.4	(5 <sup>+</sup> )	5523.3	4 <sup>+</sup>
2083	3358.2	4 <sup>+</sup>	1275.0	2 <sup>+</sup>
2165	5523.3	4 <sup>+</sup>	3358.2	4 <sup>+</sup>
2954	6312.4	6 <sup>+</sup>	3358.2	4 <sup>+</sup>
3181	4456.2	2 <sup>+</sup>	1275.0	2 <sup>+</sup>
3983	7341.6	(3,4) <sup>+</sup>	3358.2	4 <sup>+</sup>
4721	11033.9	(8 <sup>+</sup> ,6 <sup>+</sup> )	6312.4	6 <sup>+</sup>

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Legend

## Level Scheme

● Coincidence

