^{24}Mg(^{3}He,pγ) 1973Go10

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia and A. M. Hurst	NDS 134,1 (2016)	1-Feb-2016

$J^{\pi}(^{24}Mg)=0^{+}$.
Others: 1972Be51,1972Ma67,1972No04,1976De24,1973Ol04, 1968Bi05,1968Da11,1969Bi04. 1981Ta04: (^{3}He,p).

^{24}Mg(^{3}He,pγ), E=6 MeV. Doppler-shift attenuation.

^{26}Al Levels

E(level)	$T_{1/2}$	L	E(level)	$T_{1/2}$	L	E(level)	$T_{1/2}$	L
0.0		4	2071.64 *4*	270 fs *35*	0+2	3596.34 *4*	30 fs *5*	2
228.305 *13*		0	2365.150 *18*	0.66 ps *17*	2+4	3680.68 *6*	19 fs *8*	
416.852 *3*		2(+4)	2545.367 *17*	0.6 ps *3*	2	3723.81 *4*	<16 fs	0
1057.739 *12*	28 fs *7*	0+2	2660.92 *5*	3 ps *3*	(2)	3750.90 *4*	30 fs *6*	
1759.034 *8*	1.7 ps *5*	2	2740.03 *3*	37 fs *6*	2	3753.63 *13*	19 fs *8*	0
1850.62 *3*	30 fs *8*	0+2	2913.40 *5*	59 fs *10*	2	3962.83 *5*	47 fs *10*	(2)
2068.86 *5*	364 fs *20*	0+2	3073.63 *4*	201 fs *50*	4	4349.34 *7*		2
2069.47 *3*	21 fs *10*	0+2	3159.889 *13*	25 fs *7*	2	4430.72 *6*		4

$\gamma(^{26}Al)$

E_γ	E_i(level)	E_f
829.3† *4*	1057.739	228.305
1621.7† *9*	1850.62	228.305
1842.6† *7*	2071.64	228.305

† From 1968Bi05.

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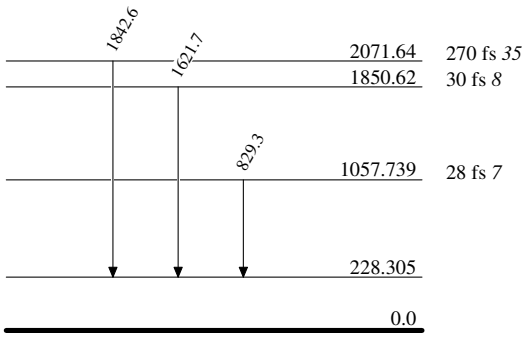
Level Scheme



$^{26}_{13}Al_{13}$