Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	R. B. Firestone	NDS 127, 1 (2015)	15-Jan-2015

Q(β^-)=−16080 *SY*; S(n)=14720 *30*; S(p)=3226 *16*; Q(α)=−8012 *16* 2012Wa38

^{21}Mg Levels

Cross Reference (XREF) Flags

A	^{24}Mg(^{3}He,^{6}He)	D	^{9}Be(^{22}Mg,^{21}Mg)
B	^{22}Si εp decay	E	Si(p,X):μ
C	^{20}Na(p,γ)	F	U(p,X),Si(p,X):radius

E(level)	J$^\pi$[†]	$T_{1/2}$	L	XREF	Comments
0.0	5/2$^+$	122 ms *3*		A DEF	%ε+%β^+=100; %β^+p=32.6 *10*; %$\beta^+\alpha$<0.5 μ=−0.983 *7* $T_{1/2}$: Weighted average of 121 ms *5* (1965Ha20), 123 ms *3* (1973Se08), and 120 ms *5* (1992Go10). μ: From 2011StZZ. %β^+p: From 1973Se08. J$^\pi$: log *ft*=4.79 to 3/2$^+$ and log *ft*=5.11 to 7/2$^+$. Mirror of ^{21}F ground state.
201 *4*	1/2$^+$			A D	
1081 *4*	1/2$^-$			A D	
1651 *4*	3/2$^+$			A D	
1989 *3*	3/2$^-$			A D	
2048 *15*	(1/2,3/2)$^-$			A	
3086 *15*	(3/2$^+$,5/2$^+$)		(2)	A	
3244 *15*	(3/2$^+$,5/2$^+$)		(2)	A	
3347 *15*	(7/2$^+$)		4	A	
3643 *15*	(7/2$^+$,9/2$^+$)		(4)	A	
3752 *15*	(1/2$^-$,3/2$^-$)		1	A	
3901 *15*			3,4	A	
4008 *15*	(1/2$^+$)		(0)	A C	
4228 *15*	(5/2$^+$)			C	
4261 *15*				A	
4538 *15*	(3/2$^+$)			C	
4987 *15*				A	
5158 *15*				A	
5318 *15*				A	
5421 *15*				A	
5614 *15*				A	
5757 *15*				A	
5862 *15*				A	
6052 *15*				A	

[†] From ^{9}Be(^{22}Mg,^{21}Mg) for levels below 2 MeV, and ^{24}Mg(^{3}He,^{6}He) and ^{20}Na(p,γ) for higher levels.

Adopted Levels, Gammas (continued)

$\gamma(^{21}Mg)$

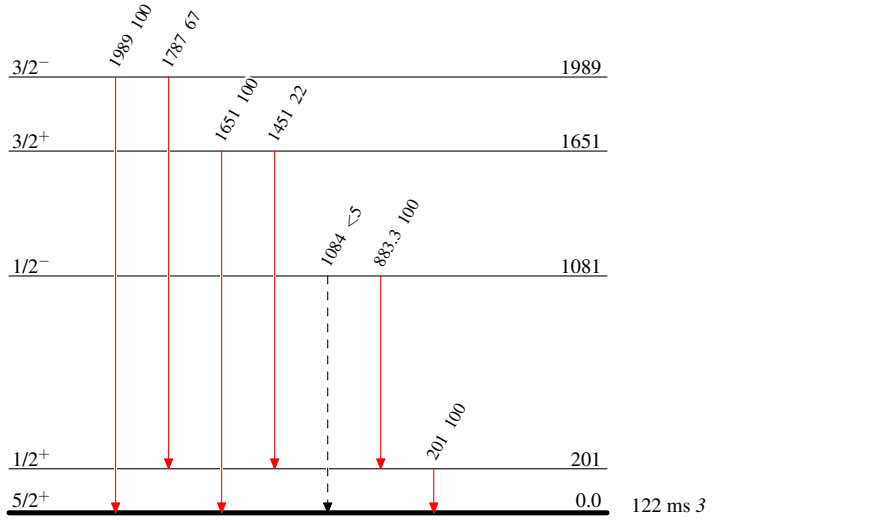
E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π
201	$1/2^+$	201 *4*	100	0.0	$5/2^+$
1081	$1/2^-$	883.3 *8*	100	201	$1/2^+$
		1084†	<5	0.0	$5/2^+$
1651	$3/2^+$	1451 *4*	22 *9*	201	$1/2^+$
		1651 *4*	100 *9*	0.0	$5/2^+$
1989	$3/2^-$	1787 *4*	67 *13*	201	$1/2^+$
		1989 *3*	100 *13*	0.0	$5/2^+$

† Placement of transition in the level scheme is uncertain.

Adopted Levels, Gammas

Level Scheme

Intensities: Type not specified



$^{21}_{12}Mg_9$