

$^{26}\text{Mg}({}^3\text{He},\text{t})$     **2006Ze01,2003Fu07**

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

 $J^\pi(^{26}\text{Mg})=0^+$ .Other reaction:  $^{25}\text{Mg}({}^6\text{Li},{}^6\text{He})$ : [1999Ue03](#) – Deduced Gamow-Teller transition strengths.[2006Ze01](#): E=140 MeV/nucleon. Measured tritons,  $\sigma(\theta)$  using the Grand Raiden spectrometer. FWHM=100 keV, DWBA analysis. Deduced Gamow- Teller B(>) strengths.[2003Fu07](#): E=140 MeV/nucleon. Measured tritons using a QDD-type Grand Raiden spectrometer with a multiwire drift-chamber system. FWHM=100 keV, DWBA analysis. Deduced Gamow-Teller B(>) strengths. $^{26}\text{Al}$  LevelsR=DWBA<sub>(corrected)</sub>/experiment.

E(level) <sup>f</sup>	$J^\pi$ <sup>a</sup>	L <sup>c</sup>	B(GT) <sup>e</sup>	Comments
0.0 <sup>‡</sup>	5 <sup>+</sup>			
228 <sup>@</sup> 2	0 <sup>+</sup>	0		T=1 Isobaric analogue state ( <a href="#">2006Ze01</a> ). $d\sigma/d\Omega(0^\circ)=4.0$ mb/sr <a href="#">1</a> ( <a href="#">2006Ze01</a> ). R=1.80 <a href="#">5</a> ( <a href="#">2006Ze01</a> ).
417 <sup>‡</sup> 2	3 <sup>+</sup>	<i>d</i>		
1058 <sup>&amp;</sup> 2	1 <sup>+</sup>	0	1.09 3	T=0 Other B(>)=1.08 <a href="#">3</a> ( <a href="#">2003Fu07</a> ). $d\sigma/d\Omega(0^\circ)=13.9$ mb/sr <a href="#">3</a> ( <a href="#">2006Ze01</a> ). R=1.62 <a href="#">4</a> ( <a href="#">2006Ze01</a> ).
1850 <sup>&amp;</sup> 2	1 <sup>+</sup>	0	0.54 2	Other B(>)=0.527 <a href="#">15</a> ( <a href="#">2003Fu07</a> ). $d\sigma/d\Omega(0^\circ)=6.7$ mb/sr <a href="#">2</a> ( <a href="#">2006Ze01</a> ). R=1.60 <a href="#">5</a> ( <a href="#">2006Ze01</a> ).
2071 <sup>&amp;</sup> 2	1 <sup>+</sup>	0	0.114 8	Other B(>)=0.112 <a href="#">4</a> ( <a href="#">2003Fu07</a> ). $d\sigma/d\Omega(0^\circ)=1.45$ mb/sr <a href="#">3</a> ( <a href="#">2006Ze01</a> ). R=1.43 <a href="#">3</a> ( <a href="#">2006Ze01</a> ).
2545 <sup>‡</sup> 2		<i>d</i>		
2739 <sup>&amp;</sup> 2	1 <sup>+</sup>	0	0.119 8	Other B(>)=0.117 <a href="#">4</a> ( <a href="#">2003Fu07</a> ). $d\sigma/d\Omega(0^\circ)=1.50$ mb/sr <a href="#">3</a> ( <a href="#">2006Ze01</a> ). R=1.31 <a href="#">3</a> ( <a href="#">2006Ze01</a> ).
2915 <sup>‡</sup> 2		<i>d</i>		
3158 <sup>@</sup> 2	2 <sup>+</sup>	<i>d</i>		T=1
3597 <sup>‡</sup> 2		<i>d</i>		
3726 2	0	0.109 8		Other B(>)=0.106 <a href="#">4</a> ( <a href="#">2003Fu07</a> ).
4428 <sup>@</sup> 2	2 <sup>-</sup>	<i>d</i>		T=0
4603 <sup>‡</sup> 2		<i>d</i>		
5010 2	0	0.28 <a href="#">I</a>		Other B(>)=0.271 <a href="#">8</a> ( <a href="#">2003Fu07</a> ).
5583 <sup>‡</sup> 2		0.020 <i>f</i> <a href="#">I</a>		
5949 2	0	0.041 5		E(level): Other: 5940 keV ( <a href="#">2006Ze01</a> ). Other B(>)=0.037 <a href="#">2</a> ( <a href="#">2003Fu07</a> ).
6269 2	0	0.134 8		Other B(>)=0.126 <a href="#">4</a> ( <a href="#">2003Fu07</a> ).
6683 <sup>‡</sup> 2		<i>d</i>		
6875 2	0	0.028 4		E(level): Other: 6870 keV ( <a href="#">2006Ze01</a> ). Other B(>)=0.028 <a href="#">1</a> ( <a href="#">2003Fu07</a> ).
7199 2	0	0.089 6		Other B(>)=0.085 <a href="#">3</a> ( <a href="#">2003Fu07</a> ).
7457 2	0	0.036 4		Other B(>)=0.038 <a href="#">2</a> ( <a href="#">2003Fu07</a> ).

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$^{26}\text{Mg}({}^3\text{He},\text{t})$  **2006Ze01,2003Fu07 (continued)** $^{26}\text{Al}$  Levels (continued)

E(level) <sup>†</sup>	J <sup>π</sup> <sup>a</sup>	L <sup>c</sup>	B(GT) <sup>e</sup>	Comments
7608 <sup>‡</sup> 2		<sup>d</sup>		
7813 2	0	0.037 4		Other B(>)=0.040 2 ( <a href="#">2003Fu07</a> ).
8276 <sup>‡</sup> 4	<sup>d</sup>			
8532 <sup>‡</sup> 4	<sup>d</sup>			
8774 <sup>‡</sup> 4	<sup>d</sup>			
8930 4	0	0.041 <sup>g</sup> 2		
9007 4	0	0.079 <sup>g</sup> 3		
9430#		0.136 8		
9620#		0.079 7		
9860#		0.058 6		
10240#		0.158 9		
10450#		0.29 1		
10810#		0.47 2		
11220#		0.164 9		
11500#		0.021 5		
11620#		0.17 1		
12010#		0.015 3		
12410#		0.022 4		
13570#	1 <sup>+</sup> <sup>b</sup>	0.068 3	T=2	
14530#		0.015 4		
14880#		0.018 5		
15910#		0.029 6		
18320#		0.021 5		

<sup>†</sup> From [2003Fu07](#), except otherwise noted. Also reported in [2006Ze01](#).

<sup>‡</sup> Reported only in [2003Fu07](#).

# Reported only in [2006Ze01](#).

@ From figure 4 of [2006Ze01](#).

& Gamow-Teller transition ([2006Ze01](#)).

<sup>a</sup> From Adopted Levels, except otherwise noted.

<sup>b</sup> From [2006Ze01](#).

<sup>c</sup> From [2003Fu07](#).

<sup>d</sup> ≠0 ([2003Fu07](#)).

<sup>e</sup> From [2006Ze01](#), except otherwise noted.

<sup>f</sup> From [2003Fu07](#).

<sup>g</sup> B(>)=0.123 8 in [2006Ze01](#) for 8980 keV level is comparable with total B(>) value for levels 8930 and 9007 in [2003Fu07](#).