

$^{24}\text{Mg}(\alpha, ^6\text{He})$ 2003Be50,2005ShZY

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

2003Be50: Enriched ^{24}Mg target, thickness 0.7 mg/cm², E=206 MeV. Magnetic Spectrometer, FWHM \approx 75 keV. Measured particle spectra, deduced excited level energies.

2005ShZY: ^{24}Mg target, thickness 0.7 mg/cm², E=205 MeV. Magnetic Spectrometer, FWHM=56 to 80 keV. Measured particle spectra, deduced excited level energies.

 ^{22}Mg Levels

E(level) [†]	Comments
6059 9	E(level): Other: 6046 4 (2005ShZY).
6244 9	E(level): Other: 6246 7 (2005ShZY).
6606 9	E(level): Other: 6005 3 (2005ShZY).
6766 12	E(level): Other: 6774 2 (2005ShZY).
6876 [‡] 6	
7070 [‡] 8	
7216 9	E(level): Other: 7224 2 (2005ShZY).
7614 9	E(level): Other: 7604 7 (2005ShZY).
7938 9	E(level): Other: 7931 5 (2005ShZY).
8006 [‡] 8	
8197 10	E(level): Other: 8191 8 (2005ShZY).
8380 10	E(level): Other: 8384 8 (2005ShZY).
8512 10	E(level): Other: 8521 5 (2005ShZY).
8644? 18	E(level): Other: 8685 6 (2005ShZY).
8771 9	E(level): Other: 8791 5 (2005ShZY).
8921 9	E(level): Other: 8947 4 (2005ShZY).
9029? 20	
9154 10	E(level): Other: 9154 3 (2005ShZY).
9378? 22	
9542 12	E(level): Other: 9526 10 (2005ShZY).
9640 10	
9746 10	E(level): Other: 9748 6 (2005ShZY).
9853 11	E(level): Other: 9861 6 (2005ShZY).
9953 13	E(level): Other: 9972 6 (2005ShZY).
10128? 20	E(level): Other: 10165 4 (2005ShZY).
10260 10	E(level): Other: 10162 3 (2005ShZY).
10389? 20	E(level): Other: 10404 7 (2005ShZY).
10627 20	E(level): Other: 10609 5 (2005ShZY).
10776 20	E(level): Other: 10711 4 (2005ShZY).
10915? 20	E(level): Other: 10872 4 (2005ShZY).
11015? 20	E(level): Other: 11003 5 (2005ShZY).
11118? 20	E(level): Other: 11125 5 (2005ShZY).
11231? 20	E(level): Other: 11236 5 (2005ShZY).
11313 20	E(level): Other: 11347 5 (2005ShZY).
11581 20	E(level): Other: 11540 5 (2005ShZY).
12003? 20	
12169? 20	

[†] From 2003Be50, except otherwise noted. Comparable level energies are listed as comments from 2005ShZY. Reported uncertainties in 2005ShZY are resulted from peak fitting of ^{22}Mg spectra.

[‡] From 2005ShZY, no comparable level energy is reported in 2003Be50.