^{24}Mg(^{24}Mg,2α2pγ) 2008Sa04

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 152, 1 (2018)	30-Sep-2017

2008Sa04: E=91.72 MeV (for ON resonance), 92.62 MeV (for OFF resonance) beams were provided by Legnaro XTU Tandem accelerator. Target was a 40 μg/cm^2 ^{24}Mg film on a 15 μg/cm^2 carbon backing. Fragments were detected with the PRIMA spectrometer and γ rays were detected with the CLARA array. Measured Eγ, Iγ, $\gamma\gamma$-coin. Deduced levels.

Decay of a narrow 36$^+$ resonance in ^{24}Mg(^{24}Mg,X) system at 45.7 MeV (c.m.) with Γ=170 keV (2008Sa04).

Level scheme from Adopted Levels is used for placement of γ rays from 2008Sa04, at 106, 670, 1643, 1822 and 2167 keV from the decay of a J^π=36$^+$ resonance in ^{24}Mg+^{24}Mg system.

^{38}Ar Levels

E(level)	J$^\pi$
0	0$^+$
2167	2$^+$
3810	3$^-$
4480	4$^-$
4586	5$^-$
6408	6$^+$

γ(^{38}Ar)

E$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
106	4586	5$^-$	4480	4$^-$
670	4480	4$^-$	3810	3$^-$
1643	3810	3$^-$	2167	2$^+$
1822	6408	6$^+$	4586	5$^-$
2167	2167	2$^+$	0	0$^+$

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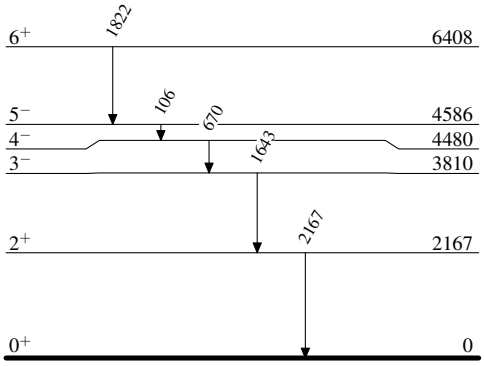
Level Scheme



$^{38}_{18}Ar_{20}$