^{96}Zr(^{7}Li,p2nγ) 1986Ho25

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen	NDS 172,1 (2021)	31-Jan-2021

1986Ho25: E(^{7}Li)=32.5 MeV from the University of Oxford folded tandem accelerator. Measured γ, $\gamma\gamma$-coin, with a Compton-suppressed Ge(Li) detector. Level energies of the g.s. band calculated using IBA model.

^{100}Mo Levels

E(level)	J$^{\pi}$[†]
0.0	0^+
535.6	2^+
1136.0	4^+
1846.6	6^+
2626.2	8^+
3365.6	(10^+)
4062.0	(12^+)

[†] From the Adopted Levels, based mainly on probable assignment of the yrast cascade to g.s. band.

γ(^{100}Mo)

The ordering of 779γ, 839γ and 696γ is based on their Iγ values (1986Ho25), however the Iγ data are not given in the paper.

E$_\gamma$	E$_i$(level)	J$_i^{\pi}$	E$_f$	J$_f^{\pi}$
535.6	535.6	2^+	0.0	0^+
600.4	1136.0	4^+	535.6	2^+
696.4	4062.0	(12^+)	3365.6	(10^+)
711.0	1846.6	6^+	1136.0	4^+
739.4	3365.6	(10^+)	2626.2	8^+
779.6	2626.2	8^+	1846.6	6^+

Legend

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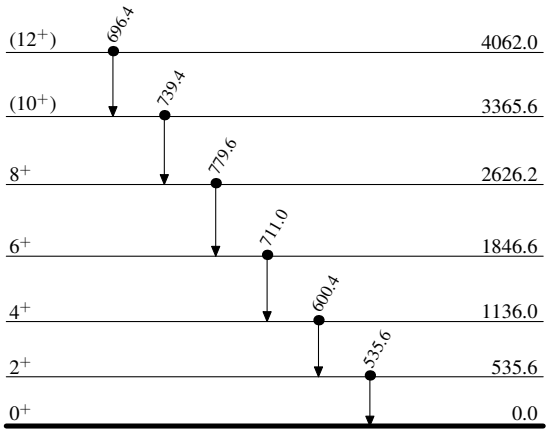
Level Scheme

● Coincidence



$^{100}_{42}Mo_{58}$