

$^{110}\text{Pd}(^{86}\text{Kr}, X\gamma)$  1997Re08

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

1997Re08: E=395 MeV  $^{86}\text{Kr}$  beam from the K130 cyclotron at the University of Jyvaskyla. Measured  $E_\gamma$ ,  $I_\gamma$ ,  $\gamma\gamma$ -coin using an array of 12 Compton-suppressed TESSA type Ge detectors. Deduced levels, band band structure.

 $^{100}\text{Mo}$  Levels

E(level) <sup>†</sup>	$J^\pi$ <sup>‡</sup>
0.0 <sup>#</sup>	0 <sup>+</sup>
535.7 <sup>#</sup> 3	2 <sup>+</sup>
1136.3 <sup>#</sup> 5	4 <sup>+</sup>
1847.6 <sup>#</sup> 5	6 <sup>+</sup>
2340.7 5	(5 <sup>-</sup> )
2627.9 <sup>#</sup> 6	8 <sup>+</sup>
2844.0 6	(7 <sup>-</sup> )
3367.8 <sup>#</sup> 7	(10 <sup>+</sup> )
4063.4 <sup>#</sup> 8	(12 <sup>+</sup> )
4875.7 <sup>#</sup> 8	(14 <sup>+</sup> )

<sup>†</sup> From  $E_\gamma$  data, assuming  $\Delta(E_\gamma)=0.3$  keV for each  $\gamma$  ray.

<sup>‡</sup> From the Adopted Levels.

<sup>#</sup> Band(A): g.s. band.

 $\gamma(^{100}\text{Mo})$ 

$E_\gamma$	$I_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
503.3	9.0 14	2844.0	(7 <sup>-</sup> )	2340.7	(5 <sup>-</sup> )
535.7	100.0 25	535.7	2 <sup>+</sup>	0.0	0 <sup>+</sup>
600.6	98 6	1136.3	4 <sup>+</sup>	535.7	2 <sup>+</sup>
695.6	12.8 14	4063.4	(12 <sup>+</sup> )	3367.8	(10 <sup>+</sup> )
711.3	58 4	1847.6	6 <sup>+</sup>	1136.3	4 <sup>+</sup>
739.9	21.0 18	3367.8	(10 <sup>+</sup> )	2627.9	8 <sup>+</sup>
780.3	30.3 25	2627.9	8 <sup>+</sup>	1847.6	6 <sup>+</sup>
812.3	8.3 14	4875.7	(14 <sup>+</sup> )	4063.4	(12 <sup>+</sup> )
996.5	9.7 14	2844.0	(7 <sup>-</sup> )	1847.6	6 <sup>+</sup>
1204.3	12.1 21	2340.7	(5 <sup>-</sup> )	1136.3	4 <sup>+</sup>

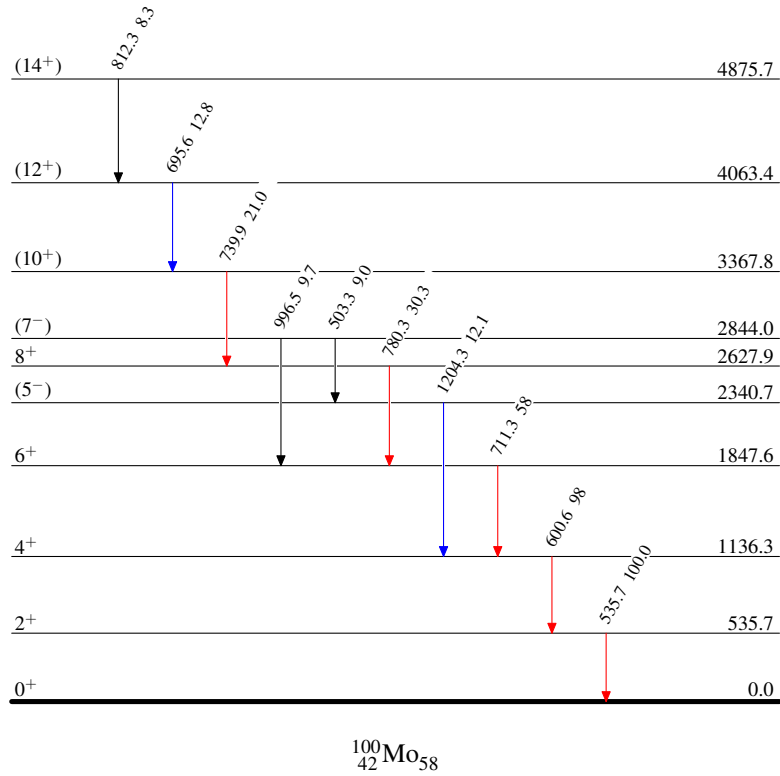
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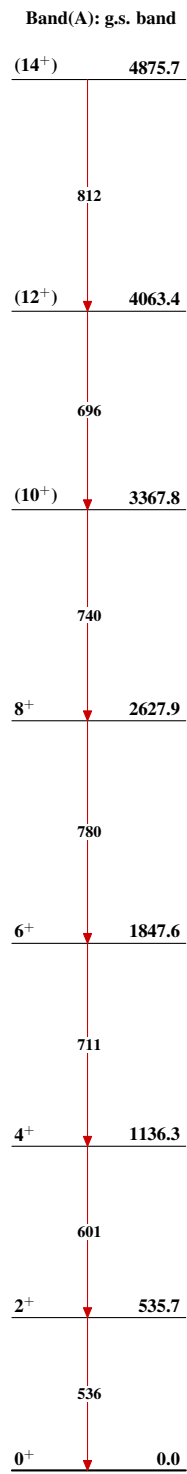
## Level Scheme

Intensities: Relative  $I_\gamma$ 

## Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$



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