

<sup>92</sup>Mo(<sup>58</sup>Ni,2pn $\gamma$ ) [1992De30](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	N. Nica and B. Singh		NDS 181, 1 (2022)	9-Mar-2022

E=260 MeV. Measured E $\gamma$ ,  $\gamma\gamma$  and  $\gamma\gamma(\theta)$ (DCO) using 6 Compton-suppressed Ge detectors and a multiplicity filter composed of 14 BaF<sub>2</sub> crystals.  $\gamma$ -rays were identified by means of  $\gamma$ -recoil coincidences at the Recoil Mass Spectrometer (RMS) at LNL. Also measured  $\gamma$ - $\gamma$ -charged particle-neutron with Nordball, 4 $\pi$  Silicon ball, and n-detector array at the Niels Bohr Tandem Accelerator Laboratory.

<sup>147</sup>Er Levels

E(level) <sup>†</sup>	J $\pi$ <sup>‡</sup>	T <sub>1/2</sub>	Comments
0.0+x <sup>#</sup>	(11/2 <sup>-</sup> )	1.6 s 2	E(level): x=100 keV 50 ( <a href="#">2021Ko07</a> , syst). T <sub>1/2</sub> : from Adopted Levels.
543.0+x <sup>#</sup>	(15/2 <sup>-</sup> )		
1455.0+x <sup>#</sup>	(19/2 <sup>-</sup> )		
1668.0+x			
2179.0+x			
2430.0+x <sup>#</sup>	(23/2 <sup>-</sup> )		
2549.0+x			
2606.0+x			
2793.0+x			
3197.0+x			
3361.0+x			E(level): 2361 is a misprint in figure 3 "Level Scheme of <sup>147</sup> Er" of <a href="#">1992De30</a> .
3468+x			
4323+x			
5008+x			

<sup>†</sup> No uncertainties are available for the E $\gamma$  input. The E(level) values are from a least-squares fit to the E $\gamma$  data with the assumption that the uncertainties are the same for all the E $\gamma$ 's.

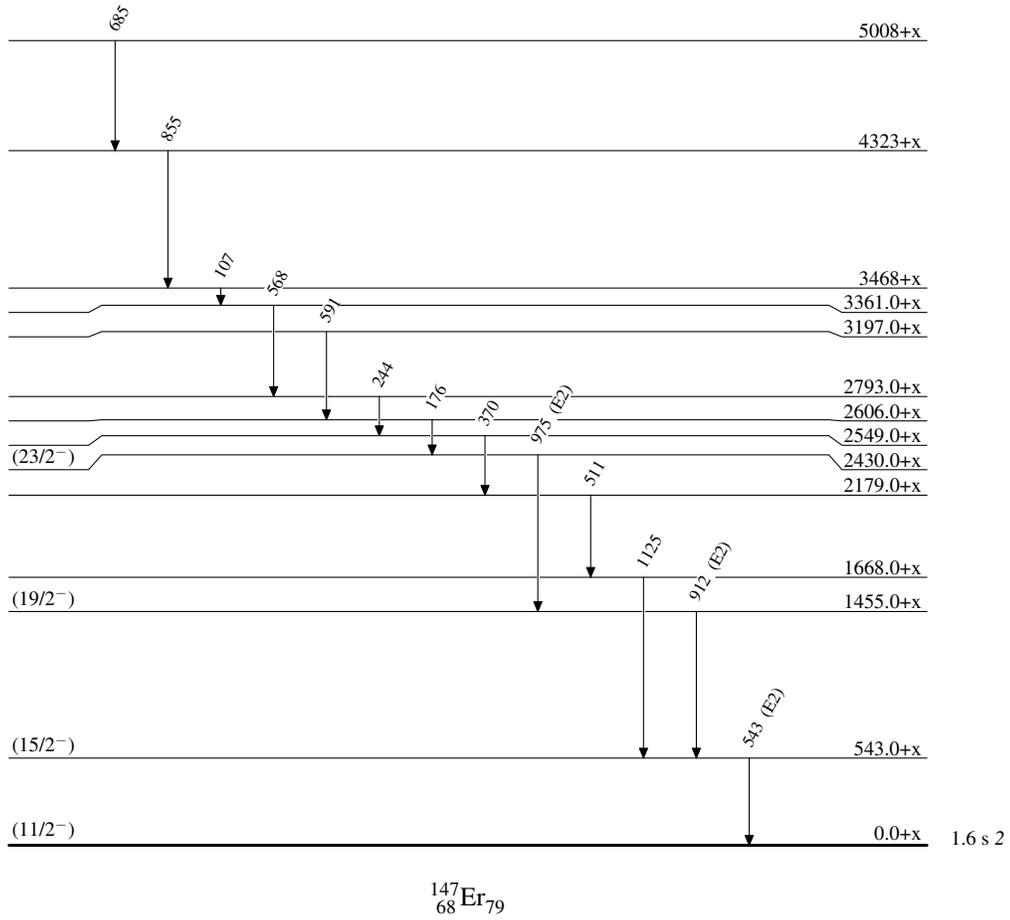
<sup>‡</sup> Based on multiplicities and comparison with <sup>139</sup>Nd, <sup>141</sup>Sm, <sup>143</sup>Gd, and <sup>145</sup>Dy isotones.

<sup>#</sup> Band(A): (11/2<sup>-</sup>) v<sub>h11/2</sub> band.

$\gamma(^{147}\text{Er})$

E $\gamma$	E <sub>i</sub> (level)	J $\pi$ <sub>i</sub>	E <sub>f</sub>	J $\pi$ <sub>f</sub>	Mult. <sup>†</sup>
107	3468+x		3361.0+x		
176	2606.0+x		2430.0+x	(23/2 <sup>-</sup> )	
244	2793.0+x		2549.0+x		
370	2549.0+x		2179.0+x		
511	2179.0+x		1668.0+x		
543	543.0+x	(15/2 <sup>-</sup> )	0.0+x	(11/2 <sup>-</sup> )	(E2)
568	3361.0+x		2793.0+x		
591	3197.0+x		2606.0+x		
685	5008+x		4323+x		
855	4323+x		3468+x		
912	1455.0+x	(19/2 <sup>-</sup> )	543.0+x	(15/2 <sup>-</sup> )	(E2)
975	2430.0+x	(23/2 <sup>-</sup> )	1455.0+x	(19/2 <sup>-</sup> )	(E2)
1125	1668.0+x		543.0+x	(15/2 <sup>-</sup> )	

<sup>†</sup> Based on DCO (values of DCO's and multiplicities not given in [1992De30](#)). They assume E2 for quadrupole transitions

$^{92}\text{Mo}(^{58}\text{Ni}, 2\text{pn}\gamma)$  **1992De30**Level Scheme

$^{92}\text{Mo}(^{58}\text{Ni},2\text{pn}\gamma)$  1992De30

Band(A):  $(11/2^-)$   $\nu h_{11/2}$   
band

$(23/2^-)$  2430.0+x

975

$(19/2^-)$  1455.0+x

912

$(15/2^-)$  543.0+x

543

$(11/2^-)$  0.0+x

$^{147}_{68}\text{Er}_{79}$