

${}^{80}\text{Se}({}^{16}\text{O},\text{p}2\text{n}\gamma)$ 1992ZoZY

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 112, 1163 (2011)	15-Dec-2010

$E({}^{16}\text{O})=50\text{-}65$ MeV; measured $E\gamma$, $I\gamma$, $\gamma(\theta)$.

 ${}^{93}\text{Nb}$ Levels

E(level) [†]	J^π [‡]
0	9/2 ⁺ #
949.8 10	13/2
1335.4 15	17/2
2833.0 18	21/2
4104.9 20	25/2
4864.8 @ 23	29/2
5904.5 25	33/2

[†] From least-squares fit to $E\gamma$, assigning 1 keV uncertainty to all $E\gamma$ data.

[‡] From 1992ZoZY, based on deduced level structure and transition multipolarity, except As noted.

From Adopted Levels.

@ Assuming the 760 γ lies below the 1040 γ , As In Adopted Levels; 1992ZoZY reported $E=5144$ based on the reverse cascade order for the equal-intensity 760 γ and 1040 γ .

 $\gamma({}^{93}\text{Nb})$

E_γ [†]	I_γ [#]	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [‡]	Comments
385.6	92 3	1335.4	17/2	949.8	13/2	Q	$A_2=+0.33$ 3, $A_4=-0.08$ 3.
759.9	62 2	4864.8	29/2	4104.9	25/2	Q	$A_2=+0.24$ 3, $A_4=-0.04$ 3.
949.8	122 4	949.8	13/2	0	9/2 ⁺	Q	$A_2=+0.28$ 2, $A_4=-0.06$ 2.
1039.7	62 2	5904.5	33/2	4864.8	29/2	Q	$A_2=+0.30$ 5, $A_4=-0.03$ 4.
1271.9	62 2	4104.9	25/2	2833.0	21/2	Q	$A_2=+0.26$ 2, $A_4=-0.08$ 2.
1497.6	69 2	2833.0	21/2	1335.4	17/2	Q	$A_2=+0.26$ 2, $A_4=-0.04$ 2.

[†] From 1992ZoZY; uncertainty unstated by authors.

[‡] Based on measured $\gamma(\theta)$.

Relative photon intensity for $E({}^{16}\text{O})=65$ MeV.

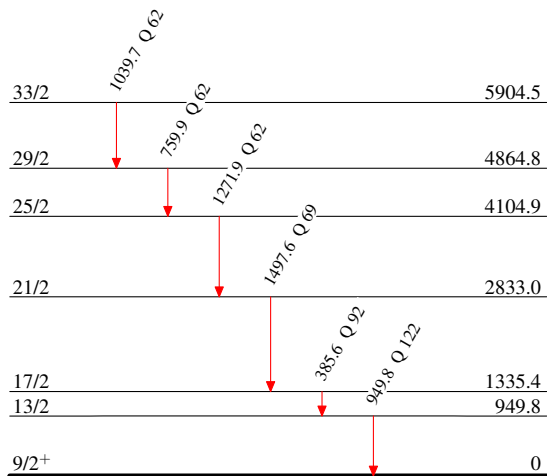
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Level Scheme

Intensities: Relative I_γ

Legend

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

 $^{93}_{41}\text{Nb}_{52}$