

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 105,223 (2005)	22-Jun-2005

$Q(\beta^-)=5545$ 4; $S(n)=6650$ 7; $S(p)=9.98\times 10^3$ 4; $Q(\alpha)=-8343$ 4 [2012Wa38](#)

Note: Current evaluation has used the following Q record \$ 5601 23 6594 24 9960 90 -8288 23 [2003Au03](#).

Additional information 1.

Preliminary high-spin data from deep inelastic reactions: $^{192}\text{Os}(^{82}\text{Se}, X\gamma)$ and $^{238}\text{U}(^{82}\text{Se}, X\gamma)$ have been reported in a conference paper by [2005Lu07](#). See ' $^{192}\text{Os}(^{82}\text{Se}, X\gamma)$, $^{238}\text{U}(^{82}\text{Se}, X\gamma)$ ' dataset for levels and gammas. A total of 12 levels and 19 γ rays are reported in this study. There is no overlap between the γ rays observed in this work and those in ^{80}Ge β^- decay.

 ^{80}As LevelsCross Reference (XREF) Flags

A ^{80}Ge β^- decay (29.5 s)
B $^{80}\text{Se}(t, ^3\text{He})$

E(level) [†]	J ^π	T _{1/2}	XREF	Comments
0.0	1 ⁺	15.2 s 2	AB	$\% \beta^- = 100$ J ^π : log ft=4.5 from 0 ⁺ . T _{1/2} : from 1975Kr08 . Others: 16 s (1981Gi17), 16.5 s 3 (1971Mc17), 15.3 s 2 (1959Me68).
243 10			B	E(level): this level may correspond to 265 level, although the energy agreement is poor.
265.35 6	1 ⁺		A	J ^π : log ft=4.7 from 0 ⁺ .
310.65 6	(≤3)		A	J ^π : γ to 1 ⁺ .
360.82 5	(≤3)		AB	J ^π : γ to 1 ⁺ .
470 15			B	
517 [‡] 15			B	
649 15			B	
680.26 5	1 ⁺		AB	XREF: B(706). J ^π : log ft=5.2 from 0 ⁺ .
805 [‡] 20			B	
910 20			B	
937.05 6	1 ⁺		AB	XREF: B(949). J ^π : log ft=4.8 from 0 ⁺ .
949 20			B	
1045 20			B	
1170 20			B	
1270 [‡] 30			B	
1310 [‡] 30			B	
1385 30			B	
1494 [‡] 25			B	
1616 25			B	
1690 [‡] 25			B	
1790 25			B	
1873.1 2	1 ⁺		A	J ^π : log ft=5.0 from 0 ⁺ .

[†] From least-squares fit to $E\gamma$'s for levels populated in ^{80}Ge β^- decay.

[‡] Either not fully resolved or too broad to be a single level.

Adopted Levels, Gammas (continued)

$\gamma(^{80}\text{As})$					
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
265.35	1^+	265.36 7	100	0.0	1^+
310.65	(≤ 3)	310.72 7	100	0.0	1^+
360.82	(≤ 3)	360.87 7	100	0.0	1^+
680.26	1^+	319.45 8	20 2	360.82	(≤ 3)
		369.67 8	27 2	310.65	(≤ 3)
		414.92 10	15.5 14	265.35	1^+
		680.16 8	100 6	0.0	1^+
937.05	1^+	576.27 8	9.1 7	360.82	(≤ 3)
		626.45 13	21 3	310.65	(≤ 3)
		936.97 8	100 6	0.0	1^+
1873.1	1^+	1873.1 2	100	0.0	1^+

Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level

