

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huo Junde, Huang Xiaolong, J. K. Tuli		NDS 106,159 (2005)	1-Apr-2005

Q(β⁻)=-1.001×10⁴ 7; S(n)=12633 6; S(p)=2269.2 25; Q(α)=-2465.1 14 [2012Wa38](#)

Note: Current evaluation has used the following Q record -10157 SY1.32E+4 7 2310 100-2.52e+310 [2003Au03](#).

⁶⁷As Levels

Cross Reference (XREF) Flags

- A ⁴⁰Ca(³²S,αpγ)
- B ⁶⁷Se ε decay

E(level) [†]	J ^π [‡]	T _{1/2}	XREF	Comments
0	(5/2 ⁻)	42.5 s 12	AB	%ε+%β ⁺ =100 T _{1/2} : from 1980Mu12 . J ^π : 3/2 ⁻ ,5/2 ⁻ from log ft to 5/2 ⁻ level; shell model systematics favors 5/2.
68.56? 19			A	
352.0? 10			B	
697.19 10	(7/2)		A	
1103.57? 17			A	
1422.57# 13	9/2 ⁺	12 ns 2	A	T _{1/2} : from ⁴⁰ Ca(³² S,αpγ) (2001Je10).
2282.34@ 24	(11/2 ⁺)		A	
2365.14# 16	(13/2 ⁺)		A	
3180.42@ 19	(13/2 ⁺)		A	
3593.61# 19	(17/2 ⁺)		A	
3885.66@ 21	(15/2 ⁺)		A	
4524.31@ 20	(19/2 ⁺)		A	
4951.12# 20	(21/2 ⁺)		A	
5726.02# 23	(25/2 ⁺)		A	
6710.3# 3	29/2 ⁺		A	
7791.3# 6	(33/2 ⁺)		A	

[†] From a least-squares fit to E_γ data.

[‡] From γ(θ), γγ(θ) and odd-A level systematics in this mass region, unless indicated otherwise.

Band(A): Band based on 9/2⁺.

@ Band(B): γ sequence based on (11/2⁺).

γ(⁶⁷As)

E _i (level)	J _i ^π	E _γ [†]	I _γ ^{‡‡}	E _f	J _f ^π	Comments
352.0?		352		0	(5/2 ⁻)	E _γ : not observed in (HI,xnγ) reactions and placed assuming observed γ populates the g.s.
697.19	(7/2)	697.2 1	100	0	(5/2 ⁻)	
1103.57?		1035.0 1	100	68.56?		
1422.57	9/2 ⁺	319.0 1	50.9 25	1103.57?		
		725.4 1	100 3	697.19	(7/2)	
		1422.4 3	18.3 21	0	(5/2 ⁻)	

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Adopted Levels, Gammas (continued) $\gamma({}^{67}\text{As})$ (continued)

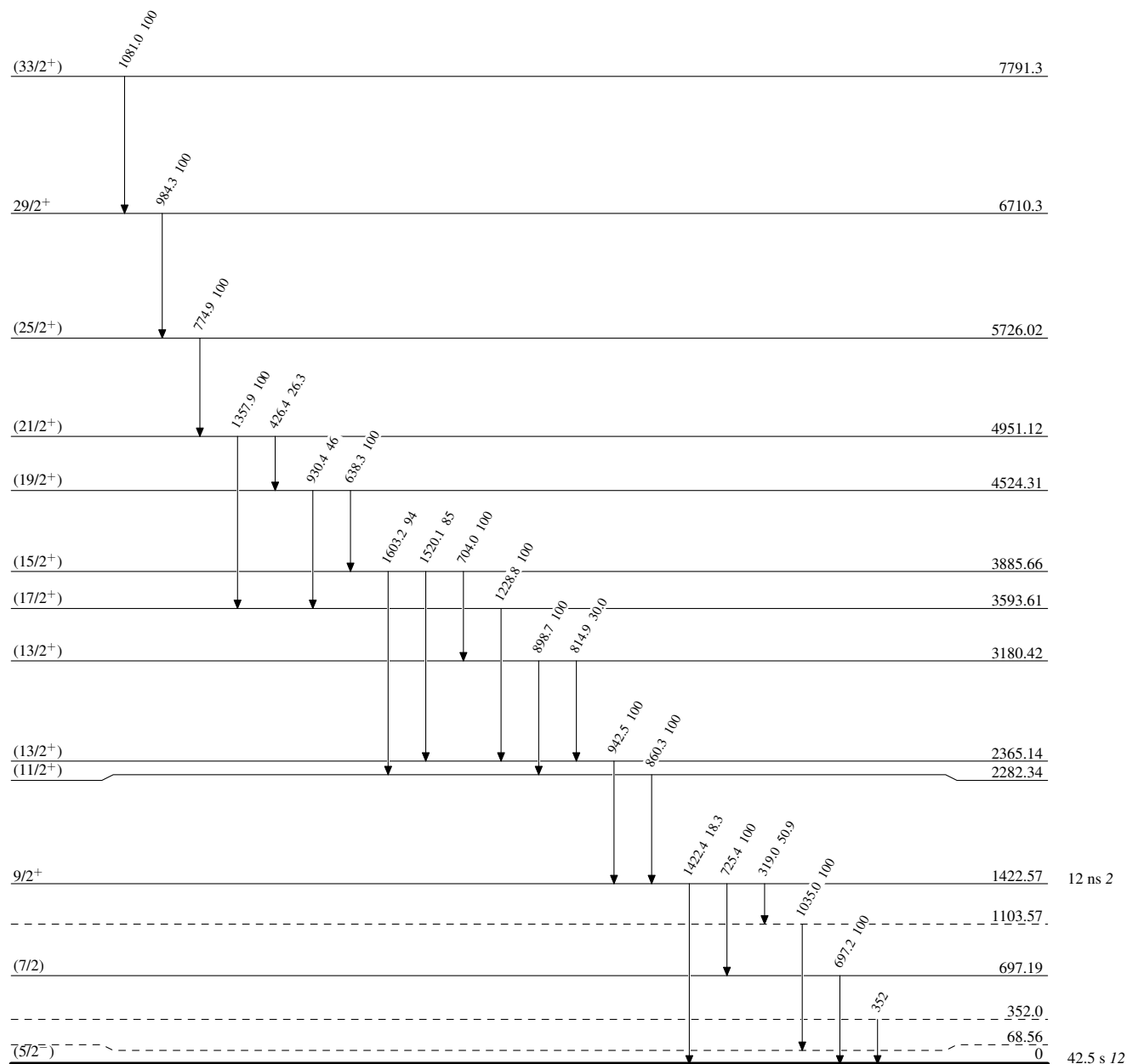
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^{\ddagger}	E_f	J_f^π	Comments
2282.34	(11/2 ⁺)	860.3 3	100	1422.57	9/2 ⁺	
2365.14	(13/2 ⁺)	942.5 1	100	1422.57	9/2 ⁺	
3180.42	(13/2 ⁺)	814.9 1	30.0 23	2365.14	(13/2 ⁺)	
		898.7 3	100 5	2282.34	(11/2 ⁺)	
3593.61	(17/2 ⁺)	1228.8 1	100	2365.14	(13/2 ⁺)	
3885.66	(15/2 ⁺)	704.0 2	100 10	3180.42	(13/2 ⁺)	
		1520.1 5	85 10	2365.14	(13/2 ⁺)	
		1603.2 3	94 7	2282.34	(11/2 ⁺)	
4524.31	(19/2 ⁺)	638.3 1	100 7	3885.66	(15/2 ⁺)	
		930.4 2	46 4	3593.61	(17/2 ⁺)	
4951.12	(21/2 ⁺)	426.4 1	26.3 20	4524.31	(19/2 ⁺)	
		1357.9 1	100 4	3593.61	(17/2 ⁺)	
5726.02	(25/2 ⁺)	774.9 1	100	4951.12	(21/2 ⁺)	
6710.3	29/2 ⁺	984.3 2	100	5726.02	(25/2 ⁺)	Additional information 1.
7791.3	(33/2 ⁺)	1081.0 5	100	6710.3	29/2 ⁺	

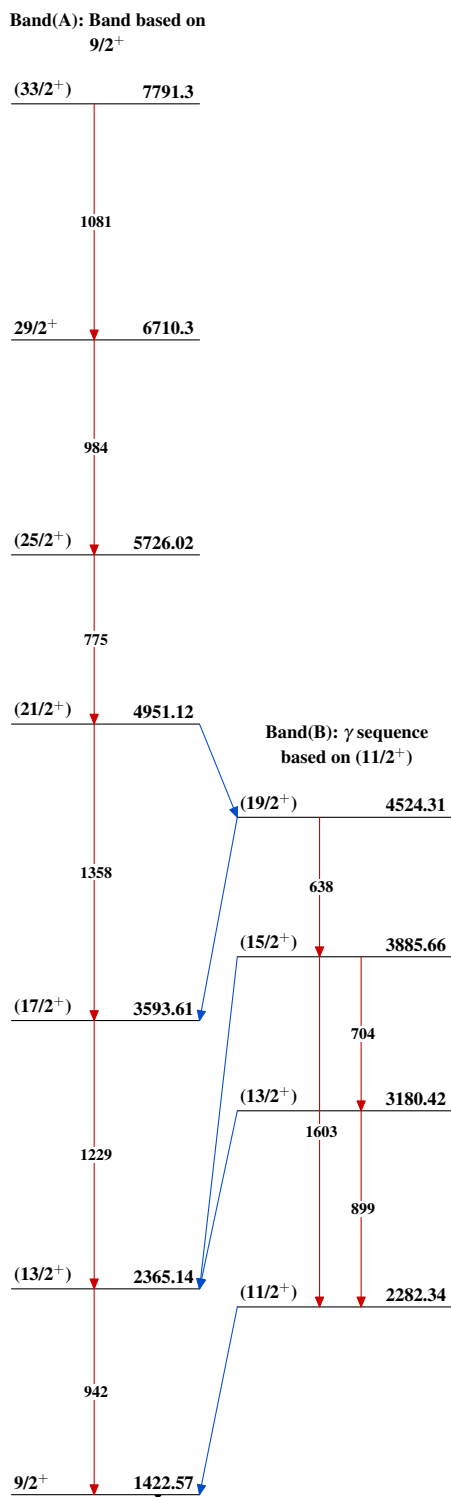
[†] From ${}^{40}\text{Ca}({}^{32}\text{S},\alpha\text{p}\gamma)$, except as noted.

[‡] Relative photon branching from each level.

Adopted Levels, Gammas**Level Scheme**

Intensities: Relative photon branching from each level

 $^{67}_{33}\text{As}_{34}$

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