

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. -c. Wu	NDS 91,1 (2000)	15-Jul-2000

$Q(\beta^-)=5.68 \times 10^3$ 4; $S(n)=8.03 \times 10^3$ 4; $S(p)=1.866 \times 10^4$ 11; $Q(\alpha)=-1.452 \times 10^4$ 4 [2012Wa38](#)

Note: Current evaluation has used the following Q record \$ 5698 43 8073 72 18100 [1995Au04](#).

Isotope shifts: [1996K104](#).

⁴⁶Ar Levels

Cross Reference (XREF) Flags

A	⁴⁶ Cl β ⁻ decay	D	⁴⁸ Ca(¹⁴ C, ¹⁶ O)
B	Coulomb excitation	E	⁴⁸ Ca(⁴⁸ Ca, ⁵⁰ Ti)
C	⁴⁸ Ca(⁶ Li, ⁸ B)		

E(level)	J ^π	T _{1/2}	XREF	Comments
0.0	0 ⁺	8.4 s 6	ABCDE	%β ⁻ =100 T _{1/2} : from decay of ¹⁹⁴⁴ γ; weighted average of 7.8 s 8 (1980Hu01) and 8.9 s 7 (1978Pe04).
1577 1	2 ⁺	1.59 ps 32	B DE	T _{1/2} : from B(E2)(W.u.)=4.0 8 (1996Sc31). J ^π : from Coulomb ex. (1996Sc31).

γ(⁴⁶Ar)

E _i (level)	J _i ^π	E _γ	I _γ	E _f	J _f ^π	Mult.	Comments
1577	2 ⁺	1577 1	100	0.0	0 ⁺	E2	B(E2)(W.u.)=4.0 8 E _γ : from (⁴⁸ Ca, ⁵⁰ Ti). (2000Fo03).

Adopted Levels, GammasLevel Scheme

Intensities: Type not specified

