Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	12-Jan-2010

$Q(\beta^-)=1.38\times10^4$ *syst*; $S(n)=4.0\times10^3$ *syst*; $S(p)=2.26\times10^4$ *syst*; $Q(\alpha)=-1.90\times10^4$ *syst*   2012Wa38

Note: Current evaluation has used the following Q record 15410   syst 4120   SY24490   syst-20160 syst
    2003Au03,2009AuZZ.

Estimated uncertainties (2009AuZZ,2003Au03): $\Delta Q(\beta^-)=1000$, $\Delta S(n)=1880$, $\Delta S(p)=1060$, DSA=860 (2003Au03,2009AuZZ).

$Q(\beta^-n)=10990$ *710* (syst,2003Au03,2009AuZZ).

1989Gu03: ^{46}S observed from interaction of a ^{48}Ca beam of 55 MeV/u with tantalum target using magnetic separation and
    identification through time-of-flight and ΔE-E measurements.

2004Gr20 (also 2003Gr22): ^{46}S formed in ^{9}Be(^{48}Ca,X) at E=60 MeV/nucleon, LISE3 at GANIL facility. Measured production
    rates and half-life.

Nuclear structure calculations: 2003In03, 2003Ob06, 1999La18, 1997Re04.

^{46}S Levels

Cross Reference (XREF) Flags

A ^{9}Be(^{46}Cl,^{46}Sγ)

E(level)	J^π	$T_{1/2}$	XREF	Comments
0.0	0^+	50 ms *8*	A	$\%\beta^-=100$
				$T_{1/2}$: from time correlations of β rays and precursor implants (2004Gr20,2003Gr22).
952 *8*	(2^+)		A	J^π: comparison with shell-model calculations, systematics of even-even nuclei.

$\gamma(^{46}$S$)$

E_i(level)	J_i^π	E_γ	E_f	J_f^π
952	(2^+)	952 *8*	0.0	0^+

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Level Scheme