

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	T. W. Burrows <sup>a</sup>	NDS 109,1879 (2008)	14-Jul-2008

$Q(\beta^-)=1.28 \times 10^4$  syst;  $S(n)=2.5 \times 10^3$  syst;  $S(p)=2.01 \times 10^4$  syst;  $Q(\alpha)=-1.53 \times 10^4$  syst [2012Wa38](#)

Note: Current evaluation has used the following Q record 12170 SY2500 SY20730 syst-17030 syst [2003Au03](#).

$Q(\beta^-)$ : Estimated uncertainty=510 keV.

$S(n)$ : Estimated uncertainty=590 keV.

$S(p)$ : Estimated uncertainty=860 keV.

$Q(\alpha)$ : Estimated uncertainty=490 keV.

$Q(\beta^-n)=3.91$  MeV *30* ([2003Au03](#). Systematics).

[2003We09](#): U(p,F) E=1.4 GeV. Isotopes extracted, mass separated, and implanted into an aluminized mylar tape; implantation point in center of cylindrical 4 $\pi$  neutron long counter consisting of 12 parallel-coupled <sup>3</sup>He pc's embedded in a paraffin moderator.  $\beta^-$ 's detected by a 1.5-mm plastic detector. Measured  $\beta^-$ (t), n(t), and  $\beta^-n$ (t). Analysis of time spectra restricted to data from a doubly charged <sup>49</sup>Ar beam; beam gate set to 200 ms after every proton pulse and a 20 ms delay; 3 h measurement (1320 proton pulses on target).

Other: [1988GuZV](#).

<sup>49</sup>Ar Levels

E(level)	T <sub>1/2</sub>	Comments
0.0	170 ms 50	$\% \beta^- = 100$ ; $\% \beta^-n = 65$ 20 ( <a href="#">2003We09</a> ) $J^\pi$ : (3/2 <sup>-</sup> ) from <a href="#">2003Au02</a> based on systematics. T <sub>1/2</sub> : from <a href="#">2003We09</a> .