

Adopted [Levels](#):tentative

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	T. W. Burrows	NDS 109,171 (2008)	30-Oct-2007

$Q(\beta^-)=1.93\times10^4$ syst; $S(n)=3.2\times10^3$ syst; $S(p)=2.05\times10^4$ syst; $Q(\alpha)=-2.10\times10^4$ syst [2012Wa38](#)
Note: Current evaluation has used the following Q record 2.116E+4 syst 2.27e+3SY2.223E+4syst-2.023E4SY [2003Au03](#).
 $Q(\beta^-)$: Estimated uncertainty=1.92 MeV.
 $S(n)$: Estimated uncertainty=1.06 MeV.
 $S(p),Q(\alpha)$: Estimated uncertainty=1.13 MeV.
 $Q(\beta^-n)=18.95$ MeV 89 (syst.).
[1990LeZQ](#): E=44 MeV/nucleon. Measured fragment spectra; mag spect, tof, ΔE -E method.

⁴⁵P Levels

E(level)	T _{1/2}	Comments
0.0?	>200 ns	$\% \beta^- = ?$ J^π : 2003Au02 suggest 1/2 ⁺ based on systematics. T _{1/2} : from time of flight. 2003Au02 suggest 8 ms based on systematics.