Adopted Levels

		History	
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	T. W. Burrows	NDS 108,923 (2007)	20-Feb-2007

$Q(\beta^-)=-1.74\times10^4$ *syst*; $S(n)=1.63\times10^4$ *syst*; $S(p)=1.9\times10^3$ *syst*; $Q(\alpha)=-7.7\times10^3$ *syst*   2012Wa38

Note: Current evaluation has used the following Q record $-17.33E+3$ SY15.45E+3syst 1.54e$^+$3syst-6.92e$^+$3syst   2003Au03.

$Q(\beta^-)$: Estimated uncertainty=0.57 MeV.

$S(n)$: Estimated uncertainty=0.44 MeV.

$S(p)$: Estimated uncertainty=0.28 MeV.

$Q(\alpha)$: Estimated uncertainty=0.34 MeV.

$Q(\varepsilon p)=15.78$ MeV *52* (2003Au03. Systematics).

$Q(\varepsilon 2p)=10.68$ MeV *26* (syst) from $\Delta(^{47}\text{Fe})=-6620$ keV *260* (syst), $\Delta(^1\text{H})=7288.97050$ keV *11*, and $\Delta(^{45}\text{V})=-31880$ keV *17* (2003Au03).

1992Bo37, 1993BoZO: Ni(^{58}Ni,X) E=69 MeV/nucleon. GANIL/LISE3. Measured p′s and $T_{1/2}(p)$. Si detector telescope; tof, energy loss in Si detector telescope.

2001Gi01: Ni(^{58}Ni,X) E=74.5 MeV/nucleon. GANIL/SISSI. Measured p′s, γ′s, pγ-coincidences, and $T_{1/2}(p)$. Si detector telescope, Ge detector and Ge clovers, silicon and Si(Li) veto detectors; tof, energy loss in Si detector telescope.

2003Au02 suggest a state at 770 keV *100* with $J^\pi=3/2^+$ and possibly decaying by IT decay based on systematics.

^{47}Fe Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	$(7/2^-)$	21.8 ms *7*	$\%\varepsilon+\%\beta^+=100$; $\%\varepsilon p>0$; $\%\varepsilon 2p=?$ J^π: systematics (2003Au02). $T_{1/2}$: from 2001Gi01. Other: 27 ms *+32−10* (1992Bo37; 13 protons detected; maximum-likelihood method).