

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen [#]		NDS 126, 1 (2015)	31-Mar-2015

$Q(\beta^-) = -15620$ SY; $S(n) = 18370$ SY; $S(p) = 100$ 40; $Q(\alpha) = -6170$ 50 [2012Wa38](#)

Estimated uncertainties: $\Delta Q(\beta^-) = 400$, $\Delta S(n) = 300$ ([2012Wa38](#)). $S(p) = 84$ 43 ([2013Ya03](#), mass measurement using the cooler storage ring CSRe at Lanzhou).

$S(2n) = 34260$ 300 (syst), $S(2p) = 3850$ 40, $Q(\epsilon p) = 6920$ 40 ([2012Wa38](#)).

First identification of ${}^{43}\text{V}$ nuclide by [1987Po04](#).

${}^{43}\text{V}$ produced by $\text{Ni}({}^{58}\text{Ni}, X)$ $E = 55$ MeV/nucleon ([1987Po04](#)) and $E = 69$ MeV/nucleon ([1992Bo37](#)), followed by measurement of fragment spectra.

Mass measurement: [2013Ya03](#) by storage ring and [2000HaZY](#) by Schottky-mass spectrometry.

Structure and reaction calculations: [2009Pa18](#), [1999Ca12](#), [1997Co19](#), [1995He18](#), [1993Ma72](#), [1987Sa19](#), [1976Ha07](#), [1975Be56](#).

 ${}^{43}\text{V}$ LevelsCross Reference (XREF) Flags

- A ${}^{43}\text{Cr}$ ϵ decay (21.2 ms)
 B $\text{Ni}({}^{58}\text{Ni}, X)$

E(level)	J^π	$T_{1/2}$	XREF	Comments
0		79.3 ms 24	AB	$\% \epsilon + \% \beta^+ = 100$; $\% \epsilon p = ?$ $T_{1/2}$: from 2007Do17 . J^π : $7/2^-$ proposed from syst (2012Au07). Shell-model calculations by 2010Pe15 predict magnetic dipole moment $\mu = +5.106$ 49.
8.25×10^3 ? 23	$(3/2^+)$		A	E(level), J^π : probable IAS of ${}^{43}\text{Cr}$ g.s. (2001Gi01).