

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yang Dong, Huo Junde		NDS 128, 185 (2015)	10-Jul-2015

$Q(\beta^-) = -20410$ SY; $S(n) = 18610$ SY; $S(p) = 3420$ SY; $Q(\alpha) = -7480$ SY [2012Wa38](#)

$\Delta Q(\beta^-) = 1060$ \$ $\Delta S(n) = 1060$ \$ $\Delta S(p) = 700$ \$ $\Delta Q(\alpha) = 810$ ([2012Wa38](#)).

^{52}Ni produced by $\text{Ni}(^{58}\text{Ni}, X)$, [1987Po04](#), [1994Fa06](#). Projectile fragments isotope separation. Ions identified by time-of-flight and energy loss in Si detector.

 ^{52}Ni LevelsCross Reference (XREF) Flags

- A ^{54}Zn 2p decay
- B $^9\text{Be}(^{54}\text{Ni}, X\gamma)$

E(level)	J^π [†]	$T_{1/2}$	XREF	Comments
0	0^+	40.8 ms 2	AB	$\% \epsilon + \% \beta^+ = 100$; $\% \beta^+ p = 31.4$ 15 (2007Do17) $T_{1/2}$: From 2007Do17 . Other: 38 MS 5 from 1994Fa06 ,
1397 6	2^+		B	
2385 10	4^+		B	
3247 17	6^+		B	

[†] Based on the intensity profile of the g-rays and mirror-symmetry arguments, i.e., through comparison with the spectrum of ^{52}Cr ([2013Da08](#)).

 $\gamma(^{52}\text{Ni})$

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
1397	2^+	1397 6	100	0	0^+
2385	4^+	988 8	100	1397	2^+
3247	6^+	862 14	100	2385	4^+

Adopted Levels, GammasLevel Scheme

Intensities: Relative photon branching from each level

