

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni		NDS 111,1 (2010)	1-May-2009

$Q(\beta^-)=5557$ 3; $S(n)=6891$ 4; $S(p)=1.71\times 10^4$ 5; $Q(\alpha)=-1.28\times 10^4$ 4 [2012Wa38](#)

Note: Current evaluation has used the following Q record 5557 3 6891 4 1.74×10^4 9 -1.32×10^{48} [2007Ra27,2009Gu09](#).

$Q(\beta^-)$ from mass excess measurements of [2007Ra27](#) and [2007Gu09](#), $S(n)$ from mass excess measurements of [2007Ra27](#).

 ^{72}Ni LevelsCross Reference (XREF) Flags

A ^{72}Co β^- decay

E(level)	J^π	$T_{1/2}$	XREF	Comments
0.0	0^+	1.57 s 5	A	$\% \beta^- = 100$ $T_{1/2}$: from $\gamma(t)$ in 2001Fr21 , other: 2.1 s 3 (1990Be13).
1096.0 20	$(2^+)^\dagger$		A	
1941 3	$(4^+)^\dagger$		A	
2396 3	$(6^+)^\dagger$		A	
3593 4	$(5^-, 6^-, 7^-)$		A	J^π : Possibly fed directly from $[6^-, 7^-]$ in β^- decay.

† Possible members of the g.s. cascade.

 $\gamma(^{72}\text{Ni})$

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
1096.0	(2^+)	1096 2	100	0.0	0^+
1941	(4^+)	845 2	100	1096.0	(2^+)
2396	(6^+)	455 2	100	1941	(4^+)
3593	$(5^-, 6^-, 7^-)$	1197 2	100	2396	(6^+)

Adopted Levels, Gammas**Level Scheme**

Intensities: Type not specified

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- Coincidence

