^{34}Al β^-n decay (56.3 ms) 2001Nu01,1989Ba50

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh	NDS 112, 1393 (2011)	31-Mar-2011

Parent: ^{34}Al: E=0; $J^\pi=(4^-)$; $T_{1/2}$=56.3 ms *5*; Q(β^-n)=9.49×10^3 *11*; %β^-n decay=26 *4*
^{34}Al-$T_{1/2}$: from γ and β multi-scaling (2001Nu01). Others: 42 ms *6* (1989Ba50), 50 ms *25* (1986Du07).
^{34}Al-%β^-n decay: %β^-n=26 *4* (1989Ba50). Others: 27 *5* (1989Ba50), 30 *8* (1999YoZW,preliminary value).
2001Nu01: Measured Eγ, Iγ, γn coin, %β^-n, half-life.
1989Ba50: Measured delayed neutrons and half-life, %β^-n=27 *5*.

^{33}Si Levels

E(level)	J^π[†]
0	$3/2^+$
1009.7? *4*	
1434.9 *5*	$7/2^-$

[†] From Adopted Levels.

$\gamma(^{33}Si)$

E_γ	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π
1009.7 *4*	1.5 *2*	1009.7?		0	$3/2^+$
1434.9 *5*	7.6 *8*	1434.9	$7/2^-$	0	$3/2^+$

[†] For absolute intensity per 100 decays, multiply by 0.26 *4*.

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Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays