^{21}Na β^+ decay 1980Wi13

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	R. B. Firestone	NDS 127, 1 (2015)	15-Jan-2015

Parent: ^{21}Na: E=0.0; $J^\pi=3/2^+$; $T_{1/2}$=22.49 s *4*; Q(β^+)=3547.14 *28*; %β^+ decay=100.0

^{21}Ne Levels

E(level)	J^π	$T_{1/2}$
0.0	$3/2^+$	stable
350.727 *8*	$5/2^+$	
2794.14 *5*	$1/2^+$	

ε,β^+ radiations

E(decay)	E(level)	Iβ^+ †	Iε †	Log *ft*	I($\varepsilon+\beta^+$) †	Comments
(753.0 *3*)	2794.14		4.0×10^{-4} *8*	4.61 *9*	4.0×10^{-4} *8*	εK= 0.9225; εL= 0.07645; εM+= 0.001072
(3196.4 *3*)	350.727	5.06 *13*	0.00748 *21*	4.596 *14*	5.07 *13*	av Eβ= 944.8 *6*; εM+= 1.592×10^{-6} *3* I($\varepsilon+\beta^+$): Other value I(γ+ce)=5.1 *4* (2010Ac01).
(3547.1 *3*)	0.0	94.84 *13*	0.0902 *10*	3.608 *7*	94.93 *13*	av Eβ= 1110.3 *6*; εL=7.253×10^{-5} *11* I($\varepsilon+\beta^+$): From annihilation intensity and decay scheme. Other value I(γ+ce)=94.9 *4* (2010Ac01).

† Absolute intensity per 100 decays.

$\gamma(^{21}Ne)$

E_γ	I_γ †‡	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
350.725 *8*	5.07 *13*	350.727	$5/2^+$	0.0	$3/2^+$		I_γ: Weighted average of 5.02 *13* (1980Wi13) and 5.1 *2* (1974Al03).
2793.94 *5*	4.0×10^{-04} *8*	2794.14	$1/2^+$	0.0	$3/2^+$	M1	

† From ratio γ-ray to 511-keV annihilation radiation intensity.
‡ Absolute intensity per 100 decays.

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Decay Scheme

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