^{27}Na β^-n decay 1984Gu19

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia and A. M. Hurst	NDS 134,1 (2016)	1-Feb-2016

Parent: ^{27}Na: E=0; $J^\pi=5/2^+$; $T_{1/2}$=301 ms *6*; Q(β^-n)=2626 *4*; %β^-n decay=0.13 *4*

^{27}Na-%β^-n decay: Deduced in 1984Gu19 from 1808.68γ activity.

1984Gu19: ^{27}Na was produced in the fragmentation of iridium target by 10 GeV protons from the CERN synchrotron. Recoiled fragments were thermalized, ionized and mass-separated; Ge(Li) detector, Measured: Eγ, Iγ, $\beta^-\gamma\gamma$ coin.

^{26}Mg Levels

E(level)	J^π	$T_{1/2}$
0	0^+	stable
1808.70 *6*	2^+	

$\gamma(^{26}Mg)$

E_γ	I_γ †	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
1808.68 *6*	0.13 *4*	1808.70	2^+	0	0^+	E2	E_γ: From 1984Gu19. I_γ: Deduced by evaluators from Iγ=0.150 *45* relative to Iγ=100 for 984.66γ and corresponding absolute Iγ=87.4 *6*% in ^{27}Mg (2011Ba29 – in ENSDF).

† Absolute intensity per 100 decays.

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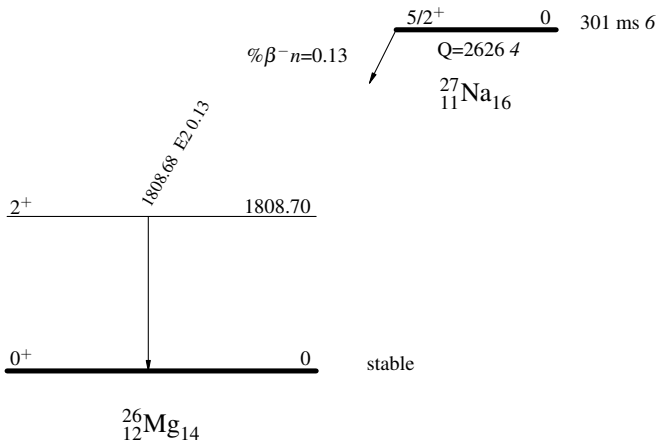
Decay Scheme

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



$^{26}_{12}Mg_{14}$