^{28}Ne β^-n decay 2006Tr02

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 112, 1875 (2011)	30-Nov-2010

Parent: ^{28}Ne: E=0.0; $J^\pi=0^+$; $T_{1/2}$=18.9 ms *4*; Q(β^-n)=87.4×10^2 *10*; %β^-n decay=12 *1*

^{28}Ne-%β^-n decay: %B-n=12 *1* (2006Tr02).

^{28}Ne was produced from fragmentation of a ^{48}Ca beam on a Be target, E=140 MeV/u; Fragments were separated by the A1900 fragment separator and identified by energy loss in ΔE-E detector and time of flight; Detector: double sided Si microstrip detector (DSSD), an array of 12 HPGe detectors, β^- counting system; Measured Eγ, Eβ, Iγ, Iβ, β-$\gamma\gamma$ coin, meanlife.

^{27}Na Levels

E(level)	J^π	Comments
0	5/2$^+$	J^π: From Adopted Levels.
63		

$\gamma(^{27}Na)$

Iγ normalization: From 2006Tr02.

E_γ	I_γ[†][‡]	E_i(level)	E_f	J^π_f
63	6.1 *7*	63	0	5/2$^+$

† Based on a private communication (e-mail) of the XUNDL data compilation group with V. Tripathi, May 9, 2006.

‡ Absolute intensity per 100 decays.

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Decay Scheme

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