

^{28}P β^+ p decay 1996Og01,1979Ho27

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

Parent: ^{28}P : $E=0$; $J^\pi=3^+$; $T_{1/2}=270.3$ ms 5; $Q(\beta^+p)=14334$ 3; $\% \beta^+p$ decay=0.0013 4

1996Og01: ^{28}P obtained from $^{28}\text{Si}(p,n)$, $E=28$ and 45 MeV; ΔE - E telescope followed by an E detector; helium-jet recoil collection; measured delayed proton energies.

1979Ho27: ^{28}P obtained from $^{28}\text{Si}(p,n)^{28}\text{P}$, $E=20$ MeV, 92.2% enriched ^{28}Si ; three $\text{Si}(\text{Au})$ and one $\text{Ge}(\text{Li})$; measured E_p , I_p , E_γ , I_γ ; deduced level energy, total branching of delayed protons.

 ^{27}Al Levels

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

Delayed Protons (^{27}Al)

$E(p)^\dagger$	$E(^{27}\text{Al})$	$I(p)^{\ddagger\ddagger}$	$E(^{28}\text{Si})$
469 1	0	3.1 5	12071
679 1	0	52.1	12289
828 1	0	3.1 5	12443
953 1	0	29.2 21	12573
1089 1	0	2.1 5	12714
1267 1	0	9.4 10	12899
1452 4	0	1.0 5	13091

† From 1996Og01. Intensity is in percent of the total delayed particle. Relative intensities of delayed particle are reported in 1996Og01.

‡ For absolute intensity per 100 decays, multiply by 1.3×10^{-5} 4.

^{28}P β^+ p decay 1996Og01,1979Ho27Decay Scheme

I(p) Intensities: I(p) per 100 parent decays

