

^{27}P β^+ p decay 1996Og01,1985Ay02

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

Parent: ^{27}P : E=0.0; $J^\pi=1/2^+$; $T_{1/2}=260$ ms 80; $Q(\beta^+p)=4170$ 40; % β^+p decay ≈ 0.070

1996Og01: ^{27}P was produced from $^{nat}\text{Si}(p,X)$, E=45 MeV, ΔE -E Si detectors; Measured β^+ delayed Ep, Ip.

1985Ay02: ^{27}P was produced from $^{28}\text{Si}(p,2n)$, E=28-50 MeV; Measured β^+ delayed Ep, Ip, $T_{1/2}$.

 ^{26}Al Levels

E(level)	J^π	$T_{1/2}^\dagger$
0.0	5^+	7.17×10^5 y 24
228.305 13	0^+	6.3465 s 7

† From Adopted Levels.

Delayed Protons (^{26}Al)

E(p)	E(^{26}Al)	I(p) †‡	E(^{27}Si)
466 3	228.305	4.2 9	8176
612 2	228.305	45.5 14	8328
731 2	228.305	46.9	8451
1324 4	228.305	3.3 9	9067

† From 1996Og01, normalized to $\Sigma I_p=100$.

‡ For absolute intensity per 100 decays, multiply by ≈ 0.0007 .

^{27}P β^+ p decay 1996Og01,1985Ay02Decay Scheme

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

