

^{28}S β^+ p decay 1989Po10

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

Parent: ^{28}S : $E=0$; $J^\pi=0^+$; $T_{1/2}=125$ ms 10; $Q(\beta^+p)=917\times 10^1$ 16; $\% \beta^+p$ decay=20.7 20

^{28}S obtained from 85 MeV/u ^{39}Ar bombardment on nickel target; isotope separator; heavy ions implanted and identified using a telescope, consists of six silicon detectors; measured β^+ delayed proton spectrum, relative and absolute intensities, time of flight.

 ^{27}Si Levels

E(level) [†]	J^π [†]
0.0	5/2 ⁺
780.9 2	1/2 ⁺
957.4 2	3/2 ⁺

[†] From Adopted Levels.

Delayed Protons (^{27}Si)

E(p)	E(^{27}Si)	I(p) ^{†‡}	E(^{28}P)
1215 25		6.8 10	
1456 25		10.1 17	
1634 30		8.1 10	
1824 30		6.4 10	
2117 30		5.1 10	
2536 25		7.4 10	
3442 30		4.4 7	
2769 30	957.4	8.4 10	5900
2984 20	780.9	33	5900
3698 20	0.0	9.5 10	5900

[†] % intensity of the total delayed particle deduced by the evaluator from reported data in 1989Po10.

[‡] For absolute intensity per 100 decays, multiply by 0.207 20.

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Decay Scheme

I(p) Intensities: Relative I(p)

