

^{32}Cl $\beta^+ \alpha$ decay 1979Ho27

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 114, 1189 (2013)	1-Apr-2013

Parent: ^{32}Cl : $E=0$; $J^\pi=1^+$; $T_{1/2}=298$ ms I ; $Q(\beta^+ \alpha)=5733$ I ; $\% \beta^+ \alpha$ decay=0.054 8

1979Ho27: ^{32}Cl obtained from $^{32}\text{S}(p,n)^{32}\text{Cl}$, $E=20$ MeV, natural target of ^{32}S ; three Si(Au) surface barrier detector; measured E_α , I_α .

 ^{28}Si Levels

E(level)

0.0

Delayed Alphas (^{28}Si)

<u>E(α)</u>	<u>E(^{28}Si)</u>	<u>I(α)[†]</u>	<u>E(^{32}S)</u>	<u>E(α)</u>	<u>E(^{28}Si)</u>	<u>I(α)[†]</u>	<u>E(^{32}S)</u>
1526 5	0.0	0.0011 2	8690	2927 5	0.0	0.0017 3	10293.3
1673 5	0.0	0.0146 20	8861	3072 5	0.0	0.00024 10	10457
1998 5	0.0	0.0002 1	9236	3135 5	0.0	0.00084 20	10528
2201 5	0.0	0.030 4	9463.9	3364 5	0.0	0.00051 10	10792.7
2417 5	0.0	0.0040 7	9711.5	3601 5	0.0	0.00006 3	11064
2656 5	0.0	0.00069 20	9983.2				

[†] Absolute intensity per 100 decays.

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Decay Scheme

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