

^{23}Si ϵp decay 1997BI04

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 127, 69(2015)	1-Apr-2015

Parent: ^{23}Si : $E=0.0$; $J^\pi=(5/2)^+$; $T_{1/2}=42.3$ ms 4; $Q(\epsilon\text{p})=16810$ SY; $\%\epsilon\text{p}$ decay ≈ 71.0

^{23}Si - $\%\epsilon\text{p}$ decay: Deduced by evaluator from ΣI_p .

Other reference: 1997Cz02.

1997BI04,1997Cz02: ^{23}Si was produced by $^{58}\text{Ni}(^{36}\text{Ar},x)$, $E(^{36}\text{Ar})=95$ MeV/nucleon, TOF mass identification, Si particle telescope. Measured E_p , I_p .

 ^{22}Mg Levels

<u>E(level)[†]</u>	<u>J^π</u>	<u>T_{1/2}[†]</u>
0.0	0 ⁺	3.8755 s 12
1246.3 6	2 ⁺	2.0 ps 8

[†] From Adopted Levels.

Delayed Protons (^{22}Mg)

<u>E(p)[†]</u>	<u>E(^{22}Mg)</u>	<u>I(p)[‡]</u>	<u>E(^{23}Al)</u>
1320 40	0.0	10 1	1450
2400 40	1246.3	32 2	3770
2830 60	1246.3	14 1	4200
3040 60	0.0	8 1	3170
3650 60	0.0	7.2 6	3770
10410 70	1246.3		11780
11.62×10 ³ 10	0.0		11780

[†] Corrected for recoil by evaluator (2005Fi16).

[‡] Absolute intensity per 100 decays.

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Decay Scheme

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

