^{26}P ε2p decay 2004Th09

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia, Anagha Chakraborty	NDS 186, 2 (2022)	31-Mar-2022

Parent: ^{26}P: E=0; $J^{\pi}=(3)^{+}$; $T_{1/2}$=43.7 ms *6*; Q(ε2p)=10324 *SY*; %ε2p decay=2.16 *25*

^{26}P-J^{π},$T_{1/2}$: From Adopted Levels of ^{26}P (2016Ba18). Other: 50 ms *+23−12* (2017Ja05).

^{26}P-Q(ε2p): Deduced by evaluators using the data of Q(ε)(^{26}P) and Q(2p)(^{26}Si) from AME2020 (2021Wa16). Estimated ΔQ=200 (syst).

^{26}P-%ε2p decay: From 2004Th09 (based on I_{2p} of 0.79 *12* and 1.37 *22*). Other: 1.5 *4* (2017Ja05).

Source produced by ^{12}C(^{36}Ar,x) E=95 MeV/nucleon fragmentation. LISE3 spectrometer, mass identification by Time-of-Flight, ΔE in Si stack detector. Measured Ep with Si detector.

Other reference: 1984Ca29.

^{24}Mg Levels

E(level)	J^{π}	$T_{1/2}$
0	0^{+}	stable
1368.668 *5*	2^{+}	

Delayed Protons (^{24}Mg)

Particle normalization: Normalized to Σ I_{2p} = 100. Relative intensities of 2004Th09 are listed in comments section.

E(p)	E(^{24}Mg)	I(p)†	E(^{25}Al)	Comments
3879 *3*	1368.668	37 *5*	13036	I(p): (rel) = 4.4 *6*.
5247 *3*	0	63 *11*	13036	I(p): (rel) = 7.6 *13*.

† For absolute intensity per 100 decays, multiply by 0.0216 *25*.

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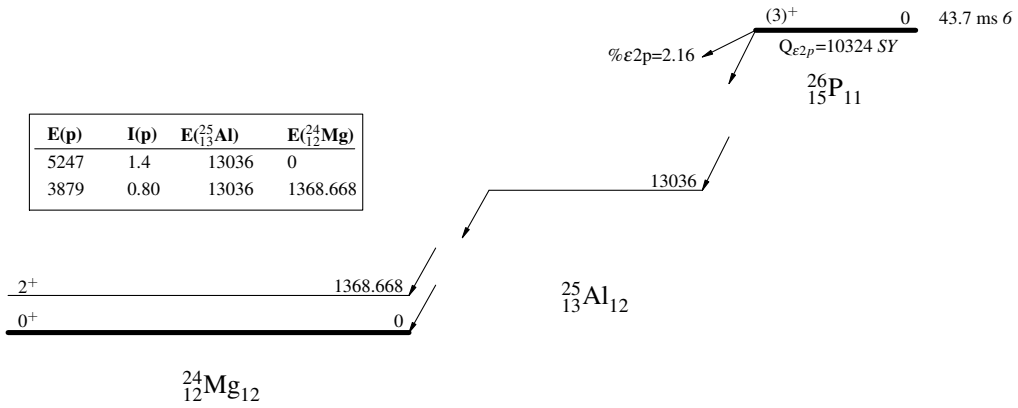
Decay Scheme

I(p) Intensities: Relative I(p)



E(p)	I(p)	E($^{25}_{13}$Al)	E($^{24}_{12}$Mg)
5247	1.4	13036	0
3879	0.80	13036	1368.668