Adopted Levels, Gammas

History

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

Q(β^-)=−23440 *SY*; S(n)=21030 *SY*; S(p)=2.49×10^3 *16*; Q(α)=−9.10×10^3 *16* 2012Wa38
ΔQ(β^-)=620, ΔS(n)=430 (2012Wa38).
1989Po18: ^{28}S is produced in fragmentation of ^{36}Ar beam at 85 MeV/nucleon with a Ni target followed by separation of fragments using LISE spectrometer at GANIL facility. Measured half-life and delayed protons.
1985Mo18, 1983Bl08: ^{28}Si(π^+,π^-) E=120-210 MeV. Measured $\sigma(\theta)$, double charge-exchange reaction.
1982Mo12: ^{28}Si(π^+,π^-) E=164 MeV.

^{28}S Levels

Cross Reference (XREF) Flags

A ^{9}Be(^{30}S,Xγ)
B Coulomb excitation

E(level)	J$^\pi$	T$_{1/2}$	XREF	Comments
0.0	0$^+$	125 ms *10*	AB	%ε+%β^+=100; %εp=20.7 *20* T$_{1/2}$: From timing of delayed protons followed over 240 ms (1989Po10).
1507 *7*	2$^+$	2.0 ps *3*	AB	J$^\pi$: L=2 in Coulomb Excitation. T$_{1/2}$: From B(E2)↑=0.018 *3* in Coulomb Excitation.

γ(^{28}S)

E$_i$(level)	J$_i^\pi$	E$_\gamma$	I$_\gamma$	E$_f$	J$_f^\pi$	Comments
1507	2$^+$	1507 *7*	100	0.0	0$^+$	E$_\gamma$: Weighted average of 1512 keV *8* (2006Yo05) and 1497 keV *11* (2012To06).

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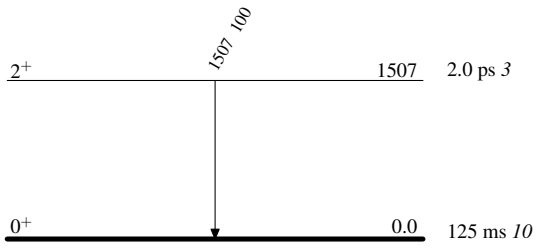
Level Scheme

Intensities: Relative photon branching from each level



$^{28}_{16}S_{12}$