Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huo Junde, Huang Xiaolong, J. K. Tuli	NDS 106,159 (2005)	1-Apr-2005

Q(β^-)=9.25×10^3 *22*; S(n)=4.07×10^3 *22*; S(p)=1.661×10^4 *22*; Q(α)=−1.28×10^4 *5* 2012Wa38

Note: Current evaluation has used the following Q record 9.37E+3 524190 *51167280* syst-12590 syst.

Produced by fragmentation of 33 MeV/u ^{86}Kr beam on thick I(γ+ce) and Ta targets. Identified by time−of−flight and ΔE-E measurements and obtained mass spectra with a charge resolution Δ′ Z/Z<1.5% and a mass resolution ΔA/a<1% (1985Gu14).

2004NiZY: fragmentation of E=63 MeV ^{85}Kr^{+32} on ^{9}Be, measured β^-.

1998So20: fragmentation of E=60.4 MeV ^{86}Kr^{+34} on ^{58}Ni, Fragments separated by LISE3 achrometer spectrometer. measured β^-.

^{67}Fe Levels

E(level)	J$^\pi$ †	T$_{1/2}$	Comments
0	(5/2$^+$)	0.6 s *+2−1*	%β^-=100 T$_{1/2}$: from 2004NiZY. Others: T$_{1/2}$=0.5 s *1* (1999So20,1999Le67), 0.47 s 5 (1998Am04). Others: 1997AmZZ, 1995AmZX.
367	(5/2$^-$)		
387	(1/2$^-$)	75 μs *21*	%IT=100 J$^\pi$: Possible configuration=1/2$^-$[301].

† from suggested configurations assuming deformation β_2≈0.26 similar to neighboring ^{56}Fe (2003Sa02).

γ(^{67}Fe)

E$_i$(level)	J$_i^\pi$	E$_\gamma$	E$_f$	J$_f^\pi$
367	(5/2$^-$)	367	0	(5/2$^+$)
387	(1/2$^-$)	20	367	(5/2$^-$)
		387	0	(5/2$^+$)

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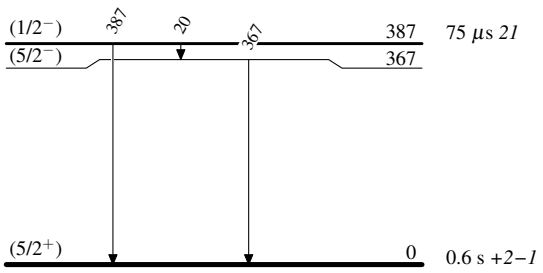
Level Scheme



$^{67}_{26}Fe_{41}$