Adopted Levels, Gammas

		History		
Type	Author	Citation	Literature Cutoff Date	
Full Evaluation	Balraj Singh	NDS 93,33 (2001)	11-May-2001	

Q(β^-)=−1.37×10^4 *syst*; S(n)=1.34×10^4 *syst*; S(p)=1.9×10^3 *syst*; Q(α)=3.1×10^3 *syst*   2012Wa38
Note: Current evaluation has used the following Q record 2194 syst 2754 syst   1995Au04.
Δ(S(p))=1208, Δ(Q(α))=1142 (1995Au04).
Q(εp)=7033 *972* (syst,1995Au04).
Existence of ^{130}Sm implied from ^{131}Eu p decay (1999So17,1998Da03).

^{130}Sm Levels

Cross Reference (XREF) Flags

A ^{131}Eu p decay (17.8 ms)

E(level)	J^π	XREF	Comments
0	0$^+$	A	%ε+%β^+=? T$_{1/2}$: ≈0.5 s from systematics (1997Au04).
122 *3*	(2$^+$)	A	J^π: systematics of even-even nuclides. Estimated β_2=0.34 from energy of 2$^+$ state.

$\gamma(^{130}$Sm)

E$_i$(level)	J^π_i	E$_\gamma$	E$_f$	J^π_f	Mult.	$\alpha^\dagger$	Comments
122	(2$^+$)	122 *3*	0	0$^+$	[E2]	1.16 *11*	E$_\gamma$: observed indirectly as ce(K)+811 proton line in the proton spectrum from ^{131}Eu decay (1999So17).

† Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation
  based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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Level Scheme

$${}^{130}_{62}Sm_{68}$$