Adopted **Levels, Gammas**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	A. A. Sonzogni	ENSDF	1-Sep-2004

Q(β^-)=-1.45×10^4 *syst*; S(n)=1.36×10^4 *syst*; S(p)=1.8×10^3 *syst*; Q(α)=3.8×10^3 *syst*   2012Wa38

Note: Current evaluation has used the following Q record 13623.0 SY1914.0 SY3509.0 syst   2003Au03.

ΔS(n)=718, ΔS(p)=566, ΔQ(α)=643 (2003Au02).

Produced by ^{90}Zr(^{197}Au,x), E=30 MeV/nucleon (2000So11). Identification using A1200 mass separator at Michigan State
    University. ^{144}Er is also observed in the proton decay of ^{145}Tm (2003Ka04), populating the ground state and the first 2^+ level.
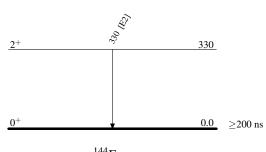
^{144}Er Levels

Cross Reference (XREF) Flags

A ^{145}Tm p decay (3.1 μs)

E(level)	J^π	$T_{1/2}$	XREF	Comments
0.0	0^+	$\geq$200 ns	A	%ε+%β^+=100 $T_{1/2}$: from (2000So11), $T_{1/2}$ has to be of the same order or larger than the flight time through the spectrograph, which for this experiment was 200 ns.
330 *10*	2^+		A	J^π: Systematics of even-even nuclei. E(level): from energy difference of proton peaks (2003Ka04).

γ(^{144}Er)

E_i(level)	J_i^π	E_γ	E_f	J_f^π	Mult.	Comments
330	2^+	330 *10*	0.0	0^+	[E2]	E_γ: This γ-ray was not observed, its existence is deduced from the energy difference between the two proton peaks in the decay of ^{145}Tm.

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Level Scheme

2$^+$	330
	330 [E2]
0$^+$	0.0 ≥200 ns

$^{144}_{68}$Er$_{76}$