Adopted **Levels, Gammas**

	Type	Author	History Citation	Literature Cutoff Date
	Full Evaluation	A. A. Sonzogni	NDS 93,599 (2001)	1-Dec-2000

$Q(\beta^-)=6.40\times10^3$ *3*; S(n)=4741 *7*; S(p)=1.35×10^4 *syst*; $Q(\alpha)=-2.94\times10^3$ *3*   2012Wa38
Note: Current evaluation has used the following Q record 5778   syst 4960 syst 12729 syst −2863 syst   1995Au04.
$\Delta Q(\beta^-)$=318 keV.
ΔS(n)=388 keV.
ΔS(p)=511 keV.
$\Delta Q(\alpha)$=594 keV.
Identification through genetic means; observed ^{144}Ce activity in the decay of ^{235}U(n,F) E=th (1976Ah01).
Measured isotope shift: 1989Bo03.
Theory: 1995Ba45, 1994Ma02, 1992Na07, 1988So08.

^{144}Xe Levels

Cross Reference (XREF) Flags

A ^{248}Cm SF decay

E(level)	J$^{\pi\ddagger}$	T$_{1/2}$	XREF	Comments
0.0†	0$^+$	1.15 s *20*	A	%β^-=100 T$_{1/2}$: from 1976Ah01. Others: ≈1 s (1950Di02), 8.8 s *22* (?) (1966La16) $\delta<r^2\geq$0.91 fm^2 *8*, relative to ^{136}Xe.
252.6†	(2$^+$)		A	
644.3†	(4$^+$)		A	
1132.2†	(6$^+$)		A	
1688.0†	(8$^+$)		A	
2302.7†	(10$^+$)		A	

† Band(A): g.s. band.
‡ From g.s. band systematics.

γ(^{144}Xe)

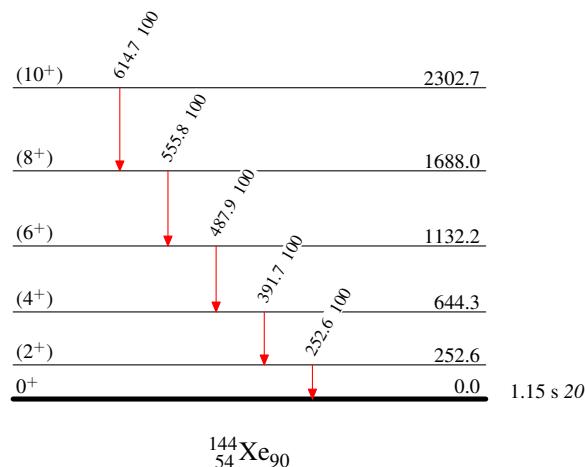| E$_i$(level)	J$^\pi_i$	E$_\gamma$	I$_\gamma$	E$_f$	J$^\pi_f$
252.6	(2$^+$)	252.6	100	0.0	0$^+$
644.3	(4$^+$)	391.7	100	252.6	(2$^+$)
1132.2	(6$^+$)	487.9	100	644.3	(4$^+$)
1688.0	(8$^+$)	555.8	100	1132.2	(6$^+$)
2302.7	(10$^+$)	614.7	100	1688.0	(8$^+$)

Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Type not specified

$I_\gamma < \ 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$

$^{144}_{54}$Xe$_{90}$

Adopted Levels, Gammas

Band(A): g.s. band

(10$^+$)　　　2302.7

615

(8$^+$)　　　1688.0

556

(6$^+$)　　　1132.2

488

(4$^+$)　　　644.3

392

(2$^+$)　　　252.6

253

0$^+$　　　0.0

$^{144}_{54}$Xe$_{90}$