

$^{232}\text{Th}(^{136}\text{Xe},\text{X})$ [1999Br17](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 108,2173 (2007)		1-Oct-2006

E=833 MeV; measured $E\gamma$, $\gamma(\theta)$, $\gamma\gamma$. GAMMASPHERE array, 73 Compton-suppressed Ge detectors.

 ^{137}Cs Levels

E(level) [‡]	J ^π [†]	Comments
0.0 [#]	7/2 ⁺	Configuration=(π g _{7/2}) ⁵ .
1184.6 [#]	(11/2 ⁺)	Configuration=(π g _{7/2}) ⁵ .
1671.6 [#]	(15/2 ⁺)	Configuration=(π g _{7/2}) ⁵ .
1893.9 [#]	(17/2 ⁺)	Configuration=((π g _{7/2}) ⁴ (π d _{5/2})).
2784.1 [#]	(21/2 ⁺)	Configuration=((π g _{7/2}) ⁴ (π d _{5/2})).
3465.2	(23/2 ⁺)	Configuration=((π g _{7/2}) ³ (π d _{5/2}) ²).
3496.1 [@]	(23/2 ⁻)	Configuration=((π g _{7/2}) ⁴ (π h _{11/2})).
4351.5		
4408.1 [@]	(27/2 ⁻)	Configuration=((π g _{7/2}) ⁴ (π h _{11/2})).
4776.5		
5022.8 [@]	(29/2 ⁻)	Configuration=((π g _{7/2}) ³ (π d _{5/2})(π h _{11/2})).
5494.0 [@]	(31/2 ⁻)	Configuration=((π g _{7/2}) ³ (π d _{5/2})(π h _{11/2})).

[†] From comparisons with Shell Model calculations, as given by authors.

[‡] As given by authors.

[#] Band(A): g.s. positive parity band.

[@] Band(B): Negative parity band.

 $\gamma(^{137}\text{Cs})$

E _γ	I _γ	E _i (level)	J _i ^π	E _f	J _f ^π
222.3 1	77 4	1893.9	(17/2 ⁺)	1671.6	(15/2 ⁺)
425.0 2	3.1 3	4776.5		4351.5	
471.2 3	2.5 3	5494.0	(31/2 ⁻)	5022.8	(29/2 ⁻)
487.0 1	100	1671.6	(15/2 ⁺)	1184.6	(11/2 ⁺)
614.7 2	6.7 4	5022.8	(29/2 ⁻)	4408.1	(27/2 ⁻)
681.1 2	8.3 5	3465.2	(23/2 ⁺)	2784.1	(21/2 ⁺)
712.2 1	25 2	3496.1	(23/2 ⁻)	2784.1	(21/2 ⁺)
890.2 1	52 3	2784.1	(21/2 ⁺)	1893.9	(17/2 ⁺)
911.9 1	14 1	4408.1	(27/2 ⁻)	3496.1	(23/2 ⁻)
1184.6 1	>100	1184.6	(11/2 ⁺)	0.0	7/2 ⁺
1567.4 3	5.5 1	4351.5		2784.1	(21/2 ⁺)

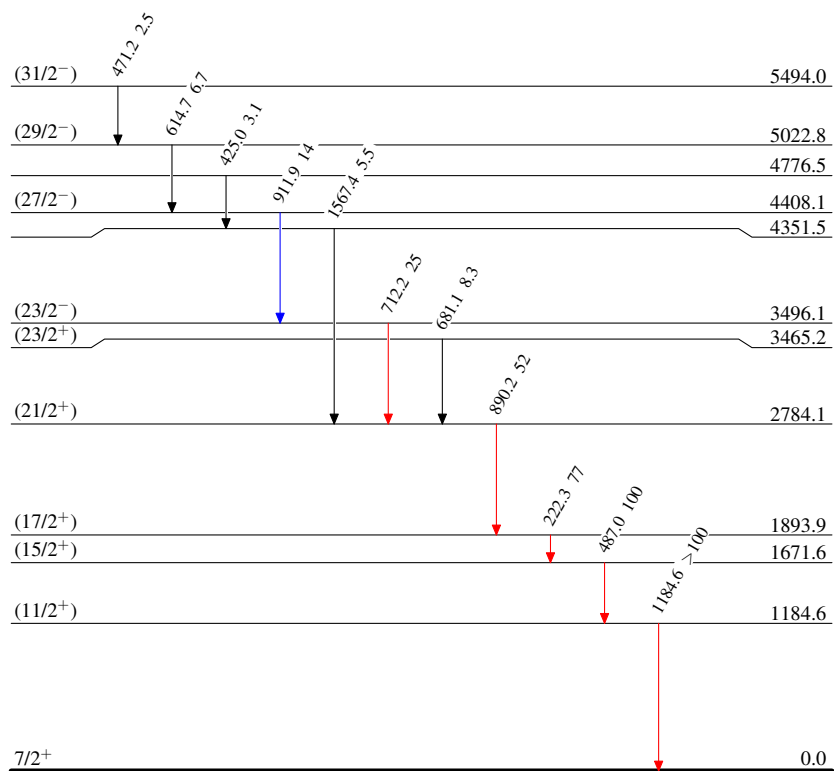
$^{232}\text{Th}(^{136}\text{Xe},\text{X})$ 1999Br17

Level Scheme

Intensities: Type not specified

Legend

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


 $^{137}_{55}\text{Cs}_{82}$

