^{232}Th(^{56}Fe,Xγ) E=362 MeV 2000BuZY

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 113, 2113 (2012)	1-May-2012

^{232}Th(^{86}Kr,X), E=511 MeV, ^{232}Th(^{136}Xe,X), E=830 MeV.

Measured Eγ, Iγ, $\gamma\gamma$ coin, $\gamma\gamma$(t) coin, angular correlation coefficients. Detector: GAMMASPHERE, a γ-ray array of 73 Compton-suppressed hyperpure germanium detectors.

^{230}Ra Levels

E(level)	J$^\pi$
0.0†	0$^+$
57.4†	(2$^+$)
186.8†	(4$^+$)
379.1†	(6$^+$)
626.4†	(8$^+$)
920.0†	(10$^+$)
1252.2†	(12$^+$)
1616.3†	(14$^+$)
2006.3†	(16$^+$)
2418.3?†	(18$^+$)

† Band(A): K$^\pi$=0$^+$ g.s. rotational band.

γ(^{230}Ra)

E$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
(57.4)	57.4	(2$^+$)	0.0	0$^+$
129.4	186.8	(4$^+$)	57.4	(2$^+$)
192.3	379.1	(6$^+$)	186.8	(4$^+$)
247.3	626.4	(8$^+$)	379.1	(6$^+$)
293.6	920.0	(10$^+$)	626.4	(8$^+$)
332.2	1252.2	(12$^+$)	920.0	(10$^+$)
364.1	1616.3	(14$^+$)	1252.2	(12$^+$)
390	2006.3	(16$^+$)	1616.3	(14$^+$)
412†	2418.3?	(18$^+$)	2006.3	(16$^+$)

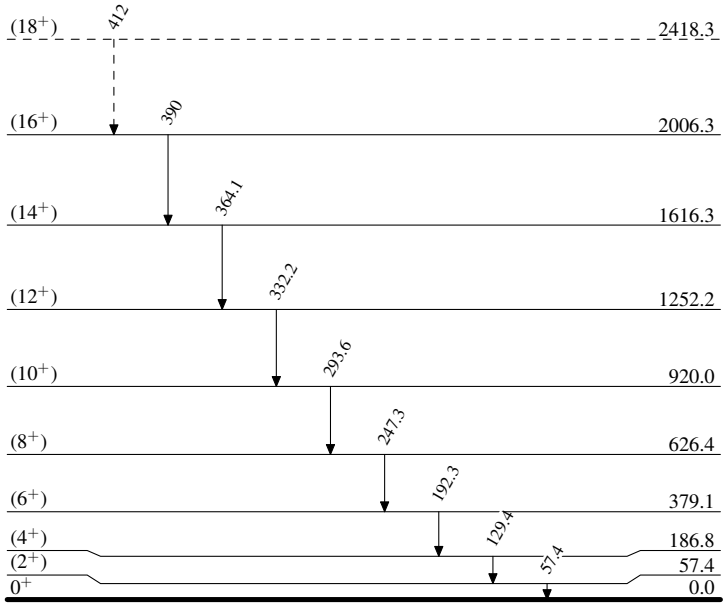
† Placement of transition in the level scheme is uncertain.

Legend

^{232}Th(^{56}Fe,Xγ) E=362 MeV 2000BuZY

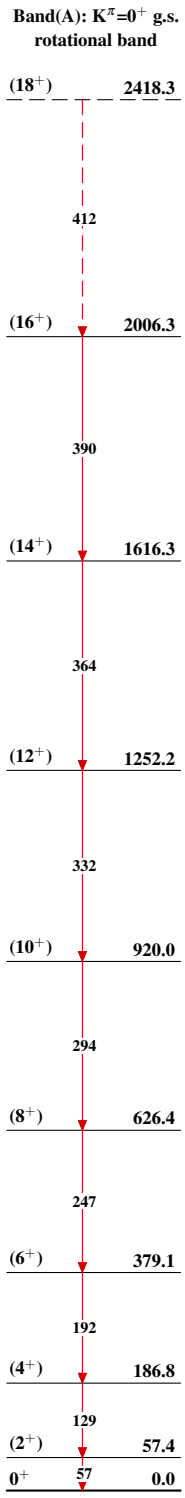
Level Scheme

γ Decay (Uncertain)



$^{230}_{88}Ra_{142}$

^{232}Th(^{56}Fe,Xγ) E=362 MeV 2000BuZY



$^{230}_{88}Ra_{142}$