^{238}U(^{48}Ca,Xγ) 2004Fo09,2002Ja16

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Yang Dong, Huo Junde	NDS 121, 1 (2014)	20-Jun-2014

Includes ^{9}Be(^{86}Kr,Xγ) E=140 MeV/nucleon from 2002Ja16.

2004Fo09: E=330 MeV. Measured Eγ, Iγ, $\gamma\gamma$ with the Gammasphere array, which consisted of 101 Compton-suppressed Ge spectrometers. shell calculations using GXPF1 and FPD6 interactions performed.

2002Ja16: E=305 MeV. Measured Eγ using the Gammasphere array comprised of 101 Compton-suppressed Ge detectors. In ^{9}Be(^{86}Kr,Xγ), measured Eγ using a double-sided Si strip detector(dssd), two Si pin detectors for β-particles, a Si pin particle veto detector, six Ge detectors in a circular geometry, and a large volume Ge detector.

All data are from 2004Fo09.

^{54}Ti Levels

E(level)	J$^{\pi}$
0[†]	0$^+$
1495.0[†] *10*	(2$^+$)
2497.0[†] *15*	(4$^+$)
2936.0[†] *18*	(6$^+$)
5111.1 *19*	(7$^+$)
5459.1 *19*	(8$^+$)
5903.1 *20*	(8$^+$)
6187.1 *20*	(9$^+$)
6432.1 *23*	(10$^+$)

[†] Band(A): Yrast band.

γ(^{54}Ti)

E$_\gamma$	E$_i$(level)	J$_i^{\pi}$	E$_f$	J$_f^{\pi}$
245	6432.1	(10$^+$)	6187.1	(9$^+$)
284	6187.1	(9$^+$)	5903.1	(8$^+$)
348	5459.1	(8$^+$)	5111.1	(7$^+$)
439	2936.0	(6$^+$)	2497.0	(4$^+$)
728	6187.1	(9$^+$)	5459.1	(8$^+$)
1002	2497.0	(4$^+$)	1495.0	(2$^+$)
1495	1495.0	(2$^+$)	0	0$^+$
2175	5111.1	(7$^+$)	2936.0	(6$^+$)
2523	5459.1	(8$^+$)	2936.0	(6$^+$)
2967	5903.1	(8$^+$)	2936.0	(6$^+$)

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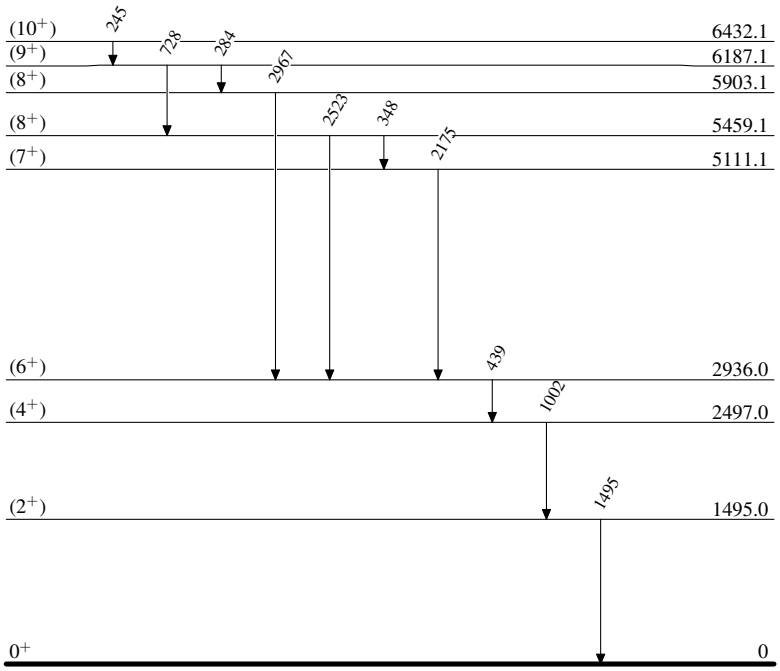
Level Scheme



$^{54}_{22}Ti_{32}$

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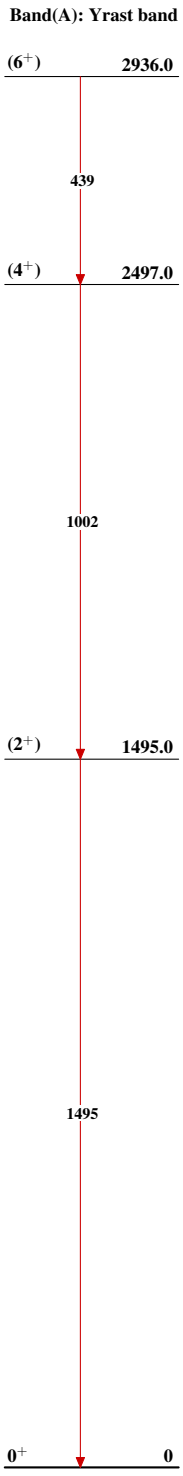

$^{54}_{22}Ti_{32}$