Coulomb excitation 2005Ko11

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Ameenah R. Farhan	NDS 107, 1923 (2006)	30-Apr-2006

2005Ko11 (also 2005Go15,2004Ko63,2003Bo45): ^{208}Pb(^{74}Kr,^{74}Kr′γ) E≈350 MeV. Measured Eγ, Iγ, (particle)γ coin, deduced quadrupole moments from analysis using GOSIA code. The details of this study are not yet available. According to 2005Go43 a detailed paper is forthcoming (reference 12 in 2005Go43).

Additional information 1.

Results are preliminary.

^{74}Kr Levels

E(level)	J$^\pi$[†]
0[‡]	0$^+$
456[‡]	2$^+$
508[#]	0$^+$
1014[‡]	4$^+$
1202[#]	2$^+$
1654	0$^+$
1741	2$^+$
1782[‡]	6$^+$
2112?[#]	(4$^+$)
2749[‡]	8$^+$

[†] As proposed by 2005Ko11. These assignments are consistent with those In 'Adopted Levels', except that some are given In parentheses there.

[‡] Band(A): g.s. band.

[#] Band(B): excited 0$^+$ band.

γ(^{74}Kr)

E$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
456	456	2$^+$	0	0$^+$
558	1014	4$^+$	456	2$^+$
694	1202	2$^+$	508	0$^+$
746	1202	2$^+$	456	2$^+$
768	1782	6$^+$	1014	4$^+$
910[†]	2112?	(4$^+$)	1202	2$^+$
967	2749	8$^+$	1782	6$^+$
1198[†]	1654	0$^+$	456	2$^+$
1202	1202	2$^+$	0	0$^+$
1233[†]	1741	2$^+$	508	0$^+$

[†] Placement of transition in the level scheme is uncertain.

Legend

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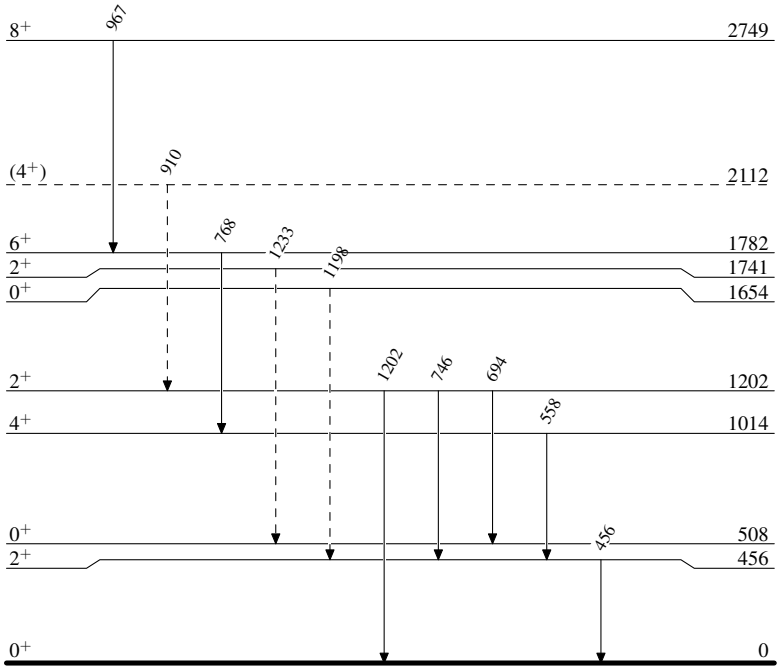
Level Scheme

$- - - - - - \blacktriangleright$ γ Decay (Uncertain)



$^{74}_{36}Kr_{38}$

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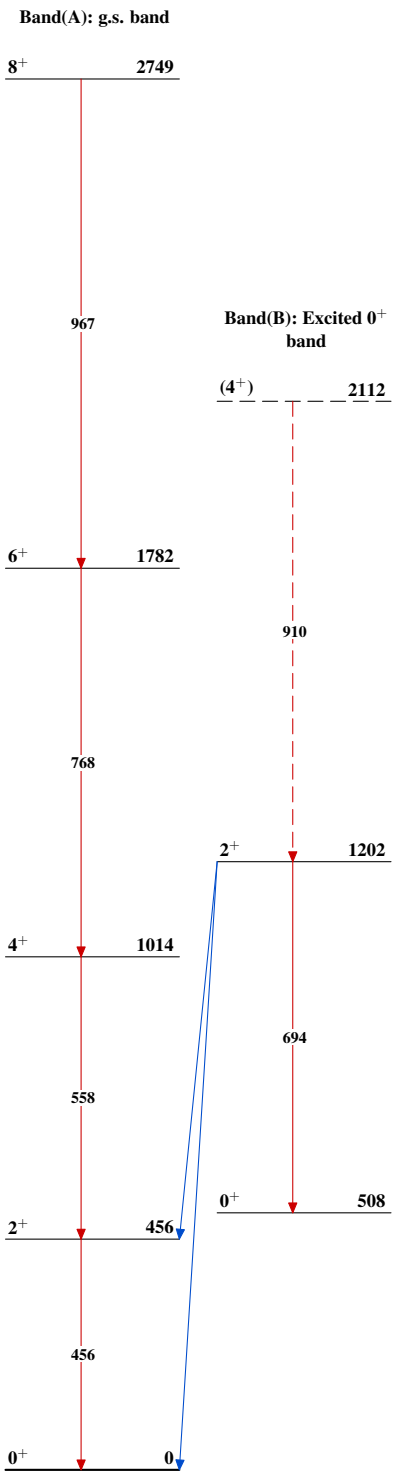

$^{74}_{36}Kr_{38}$