^{48}Ca(^{48}Ca,Xγ) E=210 MeV 2001Br35

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	T. W. Burrows	NDS 108, 923 (2007)	20-Feb-2007

Deep inelastic. Measured Eγ, Iγ, $\gamma\gamma$-coin; GASP array At the INFN Legnaro Laboratory. 1.2 mg/cm^2 ^{48}Ca target backed by a thick ^{208}Pb material.

^{47}Ca Levels

E(level)[†]	J$^\pi$[‡]
0	7/2$^-$
2013.7	3/2$^-$
2578.5	3/2$^+$
2599.8	1/2$^+$
3562.5	(9/2$^-$)[#]
3934.1	(11/2$^-$)[@]
3999.5	(13/2)[#]
4402.7	(15/2)[@]
4810.7	(17/2)[@]

[†] From least-squares fit to Eγ's assuming ΔE(γ)=1 keV (evaluator).
[‡] From the Adopted Levels, except As noted.
[#] J(13/2) from CRC analysis In ^{48}Ca(^{3}He,α). M2 γ from 4000 state tends to confirm J$^\pi$(3562)=(9/2$^-$) from CRC analysis In ^{48}Ca(^{3}He,α).
[@] J$^\pi$(3934) from E1 γ from 4000. J(4403,4811) based on γ cascade to 13/2.

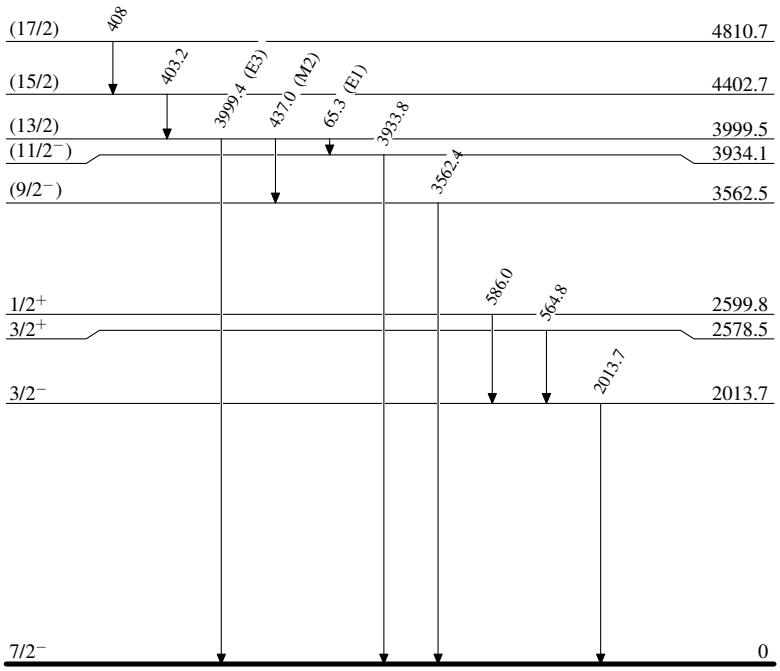
γ(^{47}Ca)

E$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Mult.
65.3	3999.5	(13/2)	3934.1	(11/2$^-$)	(E1)[†]
403.2	4402.7	(15/2)	3999.5	(13/2)	
408	4810.7	(17/2)	4402.7	(15/2)	
437.0	3999.5	(13/2)	3562.5	(9/2$^-$)	(M2)[†]
564.8	2578.5	3/2$^+$	2013.7	3/2$^-$	
586.0	2599.8	1/2$^+$	2013.7	3/2$^-$	
2013.7	2013.7	3/2$^-$	0	7/2$^-$	
3562.4	3562.5	(9/2$^-$)	0	7/2$^-$	
3933.8	3934.1	(11/2$^-$)	0	7/2$^-$	
3999.4	3999.5	(13/2)	0	7/2$^-$	(E3)[†]

[†] Suggested multipolarity based on observed γ branching.

^{48}Ca(^{48}Ca,Xγ) E=210 MeV 2001Br35

Level Scheme



$^{47}_{20}Ca_{27}$