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

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	T. W. Burrows[a]	NDS 109, 1879 (2008)	14-Jul-2008

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.

^{49}Ca Levels

E(level)[†]	J$^\pi$[‡]
0.0	3/2$^-$
3357.3	(9/2$^+$)
3866.8	(1/2$^-$,3/2$^-$)[#]
4017.7	7/2$^+$,9/2$^+$[#]
4761.0	(5/2$^+$)
5136.8	
5684.2	

† From least-squares fit to Eγ's assuming ΔEγ=1 keV (evaluator).
‡ From the Adopted Levels.
# 2001Br35 quote J$^\pi$(3867)=3/2$^-$ and J$^\pi$(4018)=(9/2$^+$) from an earlier study and note that these earlier assignments have to Be questioned, particularly the 3/2$^-$ assignment.

γ(^{49}Ca)

Identification of the 660 and 3357 γ's was based on observed cross-coincidences with ^{45}Ca, ^{46}Ca, and ^{47}Ca γ's and an absence of any γ's from ^{48}Ca.

Eγ	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
150.9	4017.7	7/2$^+$,9/2$^+$	3866.8	(1/2$^-$,3/2$^-$)
547.4	5684.2		5136.8	
660.3	4017.7	7/2$^+$,9/2$^+$	3357.3	(9/2$^+$)
743.3	4761.0	(5/2$^+$)	4017.7	7/2$^+$,9/2$^+$
923.2	5684.2		4761.0	(5/2$^+$)
1119.1	5136.8		4017.7	7/2$^+$,9/2$^+$
1666.5	5684.2		4017.7	7/2$^+$,9/2$^+$
3357.2	3357.3	(9/2$^+$)	0.0	3/2$^-$
3866.6	3866.8	(1/2$^-$,3/2$^-$)	0.0	3/2$^-$
4017.5	4017.7	7/2$^+$,9/2$^+$	0.0	3/2$^-$

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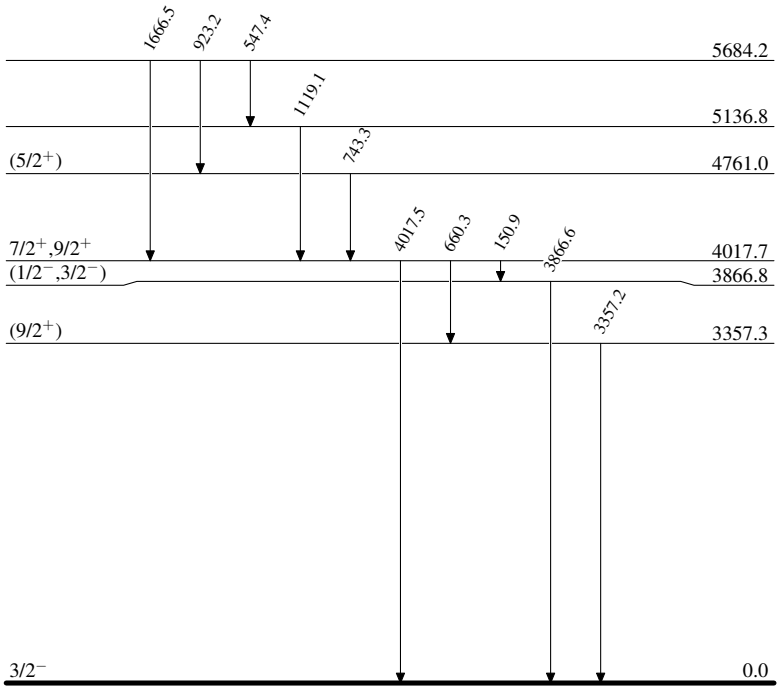
Level Scheme



$^{49}_{20}Ca_{29}$