^{59}Co(^{16}O,n2pγ) 1977Ra03

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni	NDS 111,1 (2010)	1-May-2009

E=43-56 MeV, mainly for the isomer at 561, pulsed beam, γ singles, $\gamma\gamma$, $\gamma\gamma$(t), yield functions and $\gamma(\theta$,H,t).

^{72}As Levels

Level scheme based on $\gamma\gamma$,yield functions and apparent $T_{1/2\ 1/2}$ measurements.

E(level)	J^π	$T_{1/2}$	Comments
0	2^-		
46.1 *8*	1^+		
213.1 *7*	3^+		
308.8 *8*	4^-		
361.8 *13*	$5^{(-)}$		
560.8 *17*	$7^{(-)}$	87 ns *2*	g=+0.116 *2* g: From $\gamma(\theta$,H,t), implantation in nickel. $T_{1/2}$: by delayed coincidence.

$\gamma(^{72}$As)

E_γ †	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
46	46.1	1^+	0	2^-		
53	361.8	$5^{(-)}$	308.8	4^-		
95.5	308.8	4^-	213.1	3^+		
167	213.1	3^+	46.1	1^+		
199	560.8	$7^{(-)}$	361.8	$5^{(-)}$	E2	Mult.: from $\gamma(\theta)$ and RUL.
213	213.1	3^+	0	2^-		
309	308.8	4^-	0	2^-		

† No uncertainties given by 1977Ra03. Ge(Li) detectors used.

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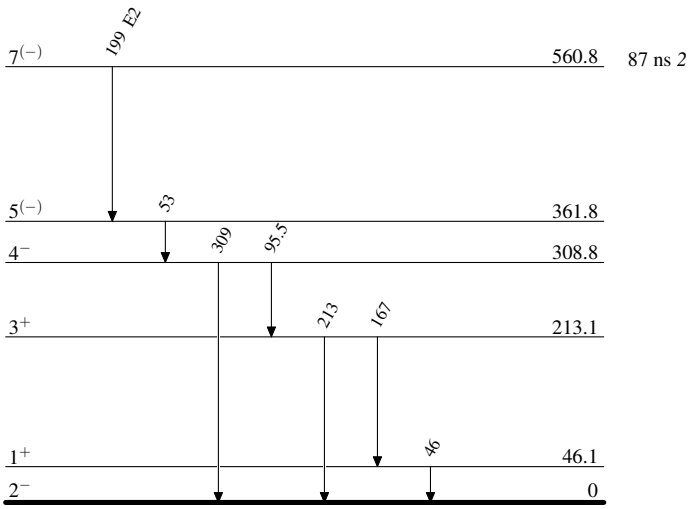
Level Scheme



$^{72}_{33}As_{39}$