

$^{90}\text{Zr}(^{13}\text{C}, ^{12}\text{C}\gamma)$ **1974Gi04**

Type	Author	History
Full Evaluation	Coral M. Baglin	Citation
		NDS 114, 1293 (2013)
		Literature Cutoff Date
		1-Sep-2013

E=33 and 34 MeV. 97.8% ^{90}Zr target. Ge(Li), annular semi. Measured $E\gamma$, DSA, and $^{12}\text{C}-\gamma$ coincidences (timing FWHM=18 ns).

 ^{91}Zr Levels

E(level)	J^π [†]	$T_{1/2}$ [‡]
0	$5/2^+$	
1204.5 7	$1/2^+$	0.17 ps +6-5
1466.6 13	$5/2^+$	0.19 ps +11-8
2041.9 10	$3/2^+$	<0.021 ps
2171.6 10	$(11/2)^-$	>5.5 ps
2558.2 23	$1/2^+$	0.13 ps +6-4

[†] From Adopted Levels.

[‡] From DSA.

 $\gamma(^{91}\text{Zr})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
1204.5 7	1204.5	$1/2^+$	0	$5/2^+$
1466.6 13	1466.6	$5/2^+$	0	$5/2^+$
2041.9 10	2041.9	$3/2^+$	0	$5/2^+$
2171.6 10	2171.6	$(11/2)^-$	0	$5/2^+$
2558.2 23	2558.2	$1/2^+$	0	$5/2^+$

$^{90}\text{Zr}(^{13}\text{C}, ^{12}\text{C}\gamma) \quad 1974\text{Gi04}$ Level Scheme