

$^{88}\text{Sr}(^{12}\text{C}, 3n\gamma)$ 1980Bu01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 111, 525 (2010)	19-Nov-2009

 ^{97}Ru Levels

$E(^{12}\text{C})=38.0$ to 45.0 MeV; Ge(Li) detector with FWHM=2.5 keV at 1.33 MeV. Measured I_γ , $\gamma(\theta)$, excit, $T_{1/2}$ (Doppler shift).

$E(\text{level})^\dagger$	$J^\pi^\ddagger$	$T_{1/2}^\#$	Comments
0.0	$5/2^+$		
421	$7/2^+$	34.6 ps 21	
879	$(9/2)^+$	≈ 3.7 ps	$T_{1/2}$: deduced from apparent $T_{1/2}=15$ ps 4 by estimating the contribution from preceding transitions.
1199	$(11/2)^+$	3.5 ps 7	
1826	$(13/2)^+$		
1845	$(15/2)^+$	14.6 ps 21	
2545	$(17/2)^+$	< 3.5 ps	
2599	$(17/2)^+$		
2739	$(21/2)^+$	8.7 ns 9	
3481	$(21/2)^+$		
3671	$(25/2)^+$		
4264	$(27/2)^+$		

† From 1978HsZY (see $^{95}\text{Mo}(\alpha, 2n\gamma)$ data set).

‡ From Adopted Levels.

$^\#$ From 1980Bu01.

 $\gamma(^{97}\text{Ru})$

$\gamma(\theta)$ results agree with multipolarity assignments of 1978HsZY ($^{95}\text{Mo}(\alpha, 2n\gamma)$ data set).

$E_\gamma^\dagger$	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ‡
193.7	38 2	2739	$(21/2^+)$	2545	$(17/2^+)$	
320.1	14 2	1199	$(11/2)^+$	879	$(9/2)^+$	(D)
421.6	100	421	$7/2^+$	0.0	$5/2^+$	
457.4	4.0 2	879	$(9/2)^+$	421	$7/2^+$	
593.3	13 4	4264	$(27/2^+)$	3671	$(25/2^+)$	
646.6	89 3	1845	$(15/2)^+$	1199	$(11/2)^+$	(E2)
699.8	63 1	2545	$(17/2)^+$	1845	$(15/2)^+$	
773.1	12.9 4	2599	$(17/2)^+$	1826	$(13/2)^+$	(E2)
777.7	91 2	1199	$(11/2)^+$	421	$7/2^+$	(E2)
879.1	56 1	879	$(9/2)^+$	0.0	$5/2^+$	(E2)
882.1	11.3 5	3481	$(21/2)^+$	2599	$(17/2^+)$	
932.0	29 2	3671	$(25/2)^+$	2739	$(21/2)^+$	(E2)
947.4	14.1 5	1826	$(13/2)^+$	879	$(9/2)^+$	(E2)

† From 1978HsZY (see $^{95}\text{Mo}(\alpha, 2n\gamma)$ data set).

‡ From $\gamma(\theta)$, with stretched Q transitions assumed to be E2.

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Level Scheme

Intensities: Relative I_γ

Legend

- $\longrightarrow$ $I_\gamma < 2\% \times I_\gamma^{\max}$
 $\longrightarrow$ $I_\gamma < 10\% \times I_\gamma^{\max}$
 $\longrightarrow$ $I_\gamma > 10\% \times I_\gamma^{\max}$

