

$^{90}\text{Zr}(^3\text{He},4n\gamma)$ 1979DeYZ,1979DeZV

Type	Author	Citation	History Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	30-Nov-2021

1979DeYZ, 1979DeZV: E=33, 36, 39, and 43 MeV. Measured γ , $\gamma\gamma$, $n\gamma$, $\gamma(\theta)$.

Note that none of the γ rays or the levels above 388 have been confirmed in any of the (HI,xn γ) studies ([1993We04](#),[1993Ga19](#)), thus these data have not been included in Adopted Levels, Gammas dataset.

 ^{89}Mo Levels

E(level)	J $^\pi$
0	(9/2 $^+$)
119.3 5	(7/2 $^+$)
388.4 7	(1/2 $^-$)
496.9 4	
626.4 4	
1156.0 4	
1253.1 5	
1440.1 7	

 $\gamma(^{89}\text{Mo})$

E $_\gamma$	E $_i$ (level)	J $^\pi_i$	E $_f$	J $^\pi_f$	Mult.	Comments
119.3 5	119.3	(7/2 $^+$)	0	(9/2 $^+$)		
129.2 5	626.4		496.9			
269.1 5	388.4	(1/2 $^-$)	119.3	(7/2 $^+$)	(E3)	Mult.: from Adopted Gammas.
496.8 5	496.9		0	(9/2 $^+$)		
627.0 [†] 5	626.4		0	(9/2 $^+$)		
627.0 [†] 5	1253.1		626.4			
659.5 5	1156.0		496.9			
755.8 5	1253.1		496.9			
813.7 5	1440.1		626.4			
1155.5 5	1156.0		0	(9/2 $^+$)		

[†] Multiply placed.

$^{90}\text{Zr}(^3\text{He},4n\gamma)$ 1979DeYZ,1979DeZVLevel Scheme