

$^{12}\text{C}(^{84}\text{Sr}, ^{88}\text{Zr}\gamma)$ 2012Ku14

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan and A. A. Sonzogni		NDS 115, 135 (2014)	1-Nov-2013

$E(^{84}\text{Sr})=243\text{-}285$ MeV. Measured $E\gamma$, $I\gamma$, $C\text{-}\gamma(\theta, H, t)$ using four HPGe Clover detectors and a PIPS detector; determined $T_{1/2}$ using Doppler Shift Attenuation Method (DSAM).

 ^{88}Zr Levels

<u>$E(\text{level})^\dagger$</u>	<u>$J^\pi^\dagger$</u>	<u>$T_{1/2}^\ddagger$</u>	Comments
0.0	0^+		
1057.0	2^+	2.50 ps 28	$g=+0.30$ 11 g: from transient field technique.
1521.4	0^+		
1817.9	2^+	0.59 ps 5	$T_{1/2}$: weighted average of 0.56 ps 7 and 0.62 ps 7 determined from a lineshape analysis of the 1818 γ and 761 γ , respectively.
2139.6	4^+	1.52 ps 14	$g=+0.65$ 18 g: from transient field technique.
2455.9	3^-	1.94 ps 21	
2539.0	5^-		

† From the Adopted Levels.

‡ From DSAM.

 $\gamma(^{88}\text{Zr})$

<u>$E_\gamma^\dagger$</u>	<u>$I_\gamma^\ddagger$</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>
399.4	15	2539.0	5^-	2139.6	4^+
464.5	5	1521.4	0^+	1057.0	2^+
638.0	9	2455.9	3^-	1817.9	2^+
760.8	14	1817.9	2^+	1057.0	2^+
1057.0	100	1057.0	2^+	0.0	0^+
1082.5	33	2139.6	4^+	1057.0	2^+

† From the Adopted Levels.

‡ Intensity relative to $I\gamma(1057\gamma)=100$.

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Level Scheme

Intensities: Type not specified

Legend

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

