

$^{94}\text{Mo}(^{88}\text{Sr}, 2n\gamma)$ 2009Gr09

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 126, 151 (2015)	1-Feb-2015

$E(^{88}\text{Sr})=300$ MeV. Measured $E\gamma$, $I\gamma$, $T_{1/2}$ with Recoil Distance Doppler-Shift method using JUROGAM array consisting of 43 Compton-suppressed HPGe detectors and the Koln plunger device. Channel selection performed with recoil-decay tagging technique using RITU gas filled spectrometer, a MultiWire Proportional Counter and two DSSDs; measured recoil- α - γ coincidences. Lifetime analysis using the Differential Decay Curve Method.

 ^{180}Hg Levels

E(level) [†]	J^π [†]	$T_{1/2}$ [‡]	Comments
0.0	0 ⁺		
434.2	2 ⁺	12 ps 2	$T_{1/2}$: authors give 10 ps < $T_{1/2}$ < 14 ps from assumption that unobserved feeding time varies from prompt to that of the 4 ⁺ state lifetime.
706.3	4 ⁺	19.5 ps 8	
1032.2	6 ⁺	8.8 ps 4	
1437.2	8 ⁺	2.29 ps 21	
1797.5	5 ⁽⁻⁾		
1914.0	10 ⁺		
2041.9	7 ⁽⁻⁾		
2359.1	9 ⁽⁻⁾	7.1 ps 8	
2748.8	11 ⁽⁻⁾		

[†] From the Adopted Levels.

[‡] From Recoil Distance Doppler-Shift measurements.

 $\gamma(^{180}\text{Hg})$

E_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π	E_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π
244.4	2041.9	7 ⁽⁻⁾	1797.5	5 ⁽⁻⁾	434.3	434.2	2 ⁺	0.0	0 ⁺
272.4	706.3	4 ⁺	434.2	2 ⁺	476.8	1914.0	10 ⁺	1437.2	8 ⁺
317.2	2359.1	9 ⁽⁻⁾	2041.9	7 ⁽⁻⁾	604.7	2041.9	7 ⁽⁻⁾	1437.2	8 ⁺
326.0	1032.2	6 ⁺	706.3	4 ⁺	765.3	1797.5	5 ⁽⁻⁾	1032.2	6 ⁺
389.7	2748.8	11 ⁽⁻⁾	2359.1	9 ⁽⁻⁾	1091.2	1797.5	5 ⁽⁻⁾	706.3	4 ⁺
404.5	1437.2	8 ⁺	1032.2	6 ⁺					

[†] From the Adopted Gammas.

$^{94}\text{Mo}(^{88}\text{Sr},2n\gamma)$ 2009Gr09Level Scheme