

^{102}Y β^- decay (0.298 s) 1991Hi02

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	D. De Frenne	NDS 110, 1745 (2009)	31-Dec-2008

Parent: ^{102}Y : E=0.0+y; $T_{1/2}=0.298$ s 9; $Q(\beta^-)=9850$ 70; % β^- decay=100.0

Assignment: mass-separated samples of A=102 from $^{235}\text{U}(n,\text{F})$. ^{102}Sr was selected using a high temperature ionization source. The existence of a second ^{102}Y isomer is based mainly on a different $I(152\gamma)/I(326\gamma)$ ratio for each isomer. Measured: $E\gamma$, $I\gamma$, $\gamma\gamma$, $T_{1/2}$. Deduced: ^{102}Zr levels.

Others: 1991Hi02 supersedes 1988HiZQ, 1989HiZY, 1974GrZN, 1992Ba28.
performed β - γ coincidences.

 ^{102}Zr Levels

E(level) [†]	J^π [‡]	Comments
0.0	0 ⁺	
151.77 13	2 ⁺	
478.41 20	4 ⁺	
894.78 22	(0 ⁺)	J^π : γ decay to 2 ⁺ but not to 4 ⁺ suggests (0 ⁺) for this level. (1 ⁺) cannot be excluded.
1159.50 22		
1211.04 13	(2 ⁺)	J^π : based on systematics: from γ decay to 0 ⁺ and 2 ⁺ .

[†] From a least-squares procedure using measured gammas.

[‡] From Adopted Levels.

 $\gamma(^{102}\text{Zr})$

E_γ [†]	I_γ [†]	E_i (level)	J_i^π	E_f	J_f^π
151.73 14	100 4	151.77	2 ⁺	0.0	0 ⁺
326.64 15	8.6 9	478.41	4 ⁺	151.77	2 ⁺
743.01 18	17 4	894.78	(0 ⁺)	151.77	2 ⁺
1059.21 18	29 3	1211.04	(2 ⁺)	151.77	2 ⁺
1159.49 22	16.0 19	1159.50		0.0	0 ⁺
1211.08 16	40 4	1211.04	(2 ⁺)	0.0	0 ⁺

[†] From 1991Hi02.

