

Adopted Levels, Gammas

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2006

$Q(\beta^-)=9.51\times 10^3$ 8; $S(n)=3.80\times 10^3$ 8; $S(p)=1.630\times 10^4$ syst; $Q(\alpha)=-1.056\times 10^4$ 16 [2012Wa38](#)

Note: Current evaluation has used the following Q record 9510 803260 18160000 syst-9920 syst [2003Au03](#).

$\Delta S(p)=323$, $\Delta Q(\alpha)=518$ ([2003Au03](#)).

 ^{101}Sr LevelsCross Reference (XREF) Flags

A ^{101}Rb β^- decay

E(level)	J^π	$T_{1/2}^\dagger$	XREF	Comments
0.0	(5/2 ⁻)	118 ms 3	A	$\% \beta^- = 100$; $\% \beta^- n = 2.37$ 14 (1986Wa17) $T_{1/2}$: weighted av: 121 ms 6 (1983Wo10), 114 ms 4 (1986Wa17). J^π : based on strong β feedings to (5/2 ⁺) states in ^{101}Y . Could be the n [532]5/2 Nilsson orbital.
111.6 8	(7/2 ⁻)	0.2 ns 3	A	J^π : possible g.s. band member. $T_{1/2}$: From unresolved 92.2 γ and 92.8 γ with the assumption that $T_{1/2}(92.2\gamma) \approx 0.6$ ns by analogy with the first excited state in ^{99}Sr (1995Lh04).
271.1 7	(3/2 ⁺)	0.1 ns 2	A	J^π : possible n [411]3/2 Nilsson orbital.
363.2 7	(5/2 ⁺)	0.4 ns 4	A	J^π : γ 's to (5/2 ⁻), (7/2 ⁻) and (3/2 ⁺).
363.9 13	(1/2 ⁺)	1.4 ns 9	A	J^π : possible n [411]1/2 Nilsson orbital.
595.9 13			A	
1362.9 8	(3/2 ⁺)		A	J^π : possible n [422]3/2 Nilsson orbital.

[†] From [1995Lh04](#), except for the g.s.

 $\gamma(^{101}\text{Sr})$

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	δ	Comments
111.6	(7/2 ⁻)	111.6 2	100	0.0	(5/2 ⁻)	M1+E2	0.22	δ : From 1995Lh04 .
271.1	(3/2 ⁺)	271.2 1	100	0.0	(5/2 ⁻)			
363.2	(5/2 ⁺)	92.2 2	11 4	271.1	(3/2 ⁺)			
		251.6 2	100 10	111.6	(7/2 ⁻)			
		363.1 3	43 7	0.0	(5/2 ⁻)			
363.9	(1/2 ⁺)	92.8 8	100	271.1	(3/2 ⁺)			
595.9		232.7 4	100	363.2	(5/2 ⁺)			
1362.9	(3/2 ⁺)	1091.8 5	100 31	271.1	(3/2 ⁺)			
		1362.9 4	54 12	0.0	(5/2 ⁻)			

Adopted Levels, GammasLevel Scheme

Intensities: Relative photon branching from each level

