

$^{252}\text{Cf SF decay}$ **1997Ha64**

Type	Author	Citation	History Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen	NDS 172, 1 (2021)	31-Jan-2021

Parent: ^{252}Cf : E=0; $J^\pi=0^+$; $T_{1/2}=2.645 \text{ y}$ 8; %SF decay=3.092 8

$^{252}\text{Cf-T}_{1/2}$: From the Adopted Levels of ^{252}Cf .

^{252}Cf -%SF decay: %SF=3.092 8 for ^{252}Cf SF decay.

1997Ha64 (also [1998JoZX](#)): measurements were carried out at Oak Ridge with 20 Compton-suppressed Ge detector and later with Gammasphere array. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma\gamma\gamma$ -coin. Deduced levels, J , π .

[Additional information 1](#).

 $^{100}\text{Sr Levels}$

E(level) [†]	J^π [‡]
0.0 [#]	0^+
129.8 [#] 5	(2 ⁺)
417.7 [#] 7	(4 ⁺)
852.0 [#] 9	(6 ⁺)
1418.3 [#] 10	(8 ⁺)
2108.1 [#] 11	(10 ⁺)

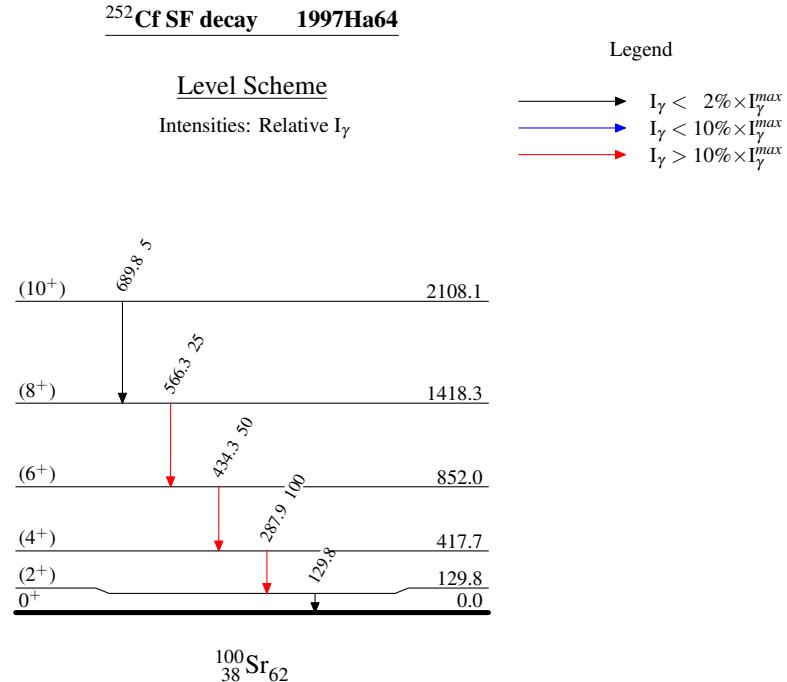
[†] From $E\gamma$ data, assuming 0.5 keV uncertainty for each $E\gamma$.

[‡] Probable assignment to g.s. yrast band.

Band(A): g.s. band.

 $\gamma(^{100}\text{Sr})$

E_γ	I_γ	$E_i(\text{level})$	J^π_i	E_f	J^π_f
129.8		129.8	(2 ⁺)	0.0	0^+
287.9	100	417.7	(4 ⁺)	129.8	(2 ⁺)
434.3	50	852.0	(6 ⁺)	417.7	(4 ⁺)
566.3	25	1418.3	(8 ⁺)	852.0	(6 ⁺)
689.8	5	2108.1	(10 ⁺)	1418.3	(8 ⁺)



^{252}Cf SF decay 1997Ha64

Band(A): g.s. band

(10⁺) 2108.1

690

(8⁺) 1418.3

566

(6⁺) 852.0

434

(4⁺) 417.7

288

(2⁺) 129.8

130

0⁺ 0.0 $^{100}_{38}\text{Sr}_{62}$