

$^{252}\text{Cf SF decay}$     **2006Hw01**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 111, 525 (2010)	19-Nov-2009

Parent:  $^{252}\text{Cf}$ : E=0;  $J^\pi=0^+$ ;  $T_{1/2}=2.645$  y 8; %SF decay=? $^{252}\text{Cf}$ -From [2005Ni22](#) (Adopted Levels).[2003Hw03](#): measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma\gamma$ ,  $T_{1/2}$  using the Gammasphere array comprised of 102 Compton-suppressed Ge detectors.All data are from [2006Hw01](#). $^{97}\text{Zr}$  Levels

E(level)	$J^\pi$	$T_{1/2}$
0.0	$1/2^+$	
1103.4	$3/2^+$	
1264.9	$7/2^+$	97 ns <i>16</i>
1859.2	( $3/2^+$ )	†
2234.6	( $7/2^+$ )	†

† This value differs from adopted value.

 $\gamma(^{97}\text{Zr})$ 

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
161.5	1264.9	$7/2^+$	1103.4	$3/2^+$
375.4	2234.6	( $7/2^+$ )	1859.2	( $3/2^+$ )
594.3	1859.2	( $3/2^+$ )	1264.9	$7/2^+$
1103.4	1103.4	$3/2^+$	0.0	$1/2^+$

**$^{252}\text{Cf}$  SF decay    2006Hw01****Level Scheme**