

$^{252}\text{Cf}$  SF decay [1970Jo20,1974CIZX](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	D. De Frenne	NDS 110, 2081 (2009)	1-Mar-2009

Parent:  $^{252}\text{Cf}$ :  $E=0.0$ ;  $J^\pi=0^+$ ;  $T_{1/2}=2.645$  y 8; %SF decay= $3.092$  8

$^{252}\text{Cf}$ -%SF decay: from [1970A123](#).

[1974CIZX](#): mass assignment from (fragment)(fragment)(K x ray)( $\gamma$ ) coin.

[1970Jo20](#): zirconium assignment from (K x ray) $\gamma$  coin.

Others: [1972Ho08](#), [1972CIZN](#), [1973TaZG](#), [1978BrZR](#).

Data are taken from [1974CIZX](#).

 $^{103}\text{Zr}$  Levels

E(level)

0.0?

 $\gamma(^{103}\text{Zr})$ 

<u><math>E_\gamma</math></u>	<u><math>I_\gamma^{\dagger\dagger}</math></u>	<u><math>E_i(\text{level})</math></u>	<u>Comments</u>
<sup>x</sup> 180.4 2	0.072 6		$E_\gamma$ : other: 180.5 2 ( <a href="#">1970Jo20</a> ). $I_\gamma$ : other: 0.055 6 ( <a href="#">1970Jo20</a> ). $T_{1/2}(180\gamma)=86$ ns 9 via $^{252}\text{Cf}$ SF-fragment, $\gamma(t)$ ; same value found by <a href="#">1970Jo20</a> .

<sup>†</sup> Delayed photons per 100 decays.

<sup>‡</sup> For absolute intensity per 100 decays, multiply by 0.03092 8.

<sup>x</sup>  $\gamma$  ray not placed in level scheme.