

$^{252}\text{Cf}$  SF decay **1995Zh39**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, A. A. Sonzogni		NDS 114, 435 (2013)	1-Apr-2013

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

Measured  $E_\gamma$ ,  $I_\gamma$ ,  $\gamma\gamma$ -coin using an array of 20 Compton-suppressed Ge array, X-ray detectors, as well as early GAMMASPHERE implementation of 36 detectors.

 $^{150}\text{Nd}$  Levels

E(level)	$J^\pi$
0 <sup>†</sup>	0 <sup>+</sup>
129.7 <sup>†</sup>	2 <sup>+</sup>
380.9 <sup>†</sup>	4 <sup>+</sup>
719.5 <sup>†</sup>	6 <sup>+</sup>
1128.4 <sup>†</sup>	8 <sup>+</sup>
1597.2 <sup>†</sup>	10 <sup>+</sup>
2117.3 <sup>†</sup>	12 <sup>+</sup>
2679.5 <sup>†</sup>	14 <sup>+</sup>
3277.5 <sup>†</sup>	16 <sup>+</sup>

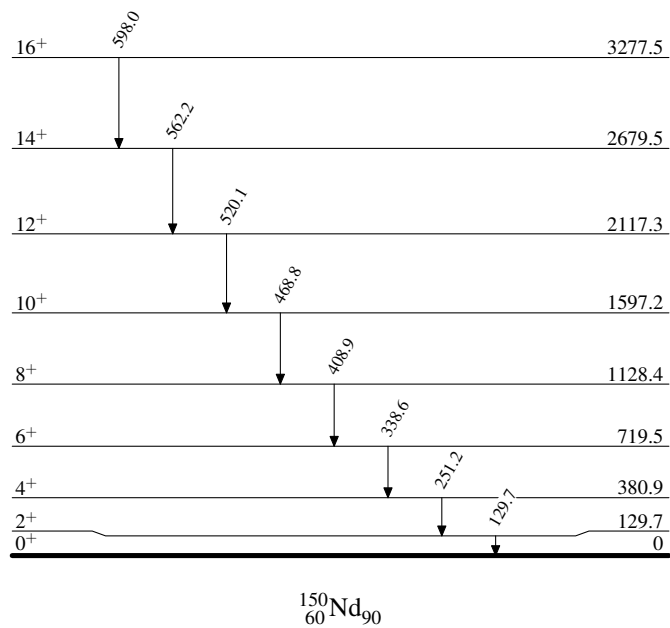
<sup>†</sup> Band(A): Yrast band.

 $\gamma(^{150}\text{Nd})$ 

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
129.7	129.7	2 <sup>+</sup>	0	0 <sup>+</sup>
251.2	380.9	4 <sup>+</sup>	129.7	2 <sup>+</sup>
338.6	719.5	6 <sup>+</sup>	380.9	4 <sup>+</sup>
408.9	1128.4	8 <sup>+</sup>	719.5	6 <sup>+</sup>
468.8	1597.2	10 <sup>+</sup>	1128.4	8 <sup>+</sup>
520.1	2117.3	12 <sup>+</sup>	1597.2	10 <sup>+</sup>
562.2	2679.5	14 <sup>+</sup>	2117.3	12 <sup>+</sup>
598.0	3277.5	16 <sup>+</sup>	2679.5	14 <sup>+</sup>

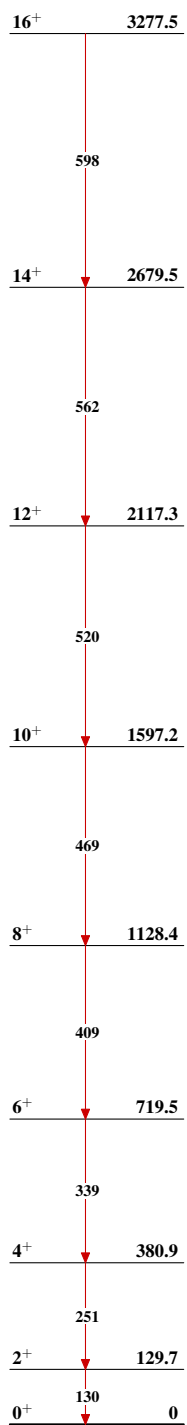
$^{252}\text{Cf}$  SF decay 1995Zh39

## Level Scheme



$^{252}\text{Cf}$  SF decay 1995Zh39

Band(A): Yrast band

 $^{150}_{60}\text{Nd}_{90}$