

^{252}Cf SF decay 2006Jo01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan and A. A. Sonzogni		NDS 115, 135 (2014)	1-Nov-2013

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

2006Jo01: Measured E_γ , I_γ , $\gamma\gamma$ using Gammasphere array with 102 Compton-suppressed Ge detectors. Identification of γ ray in ^{88}Se was achieved by gating on a known $\gamma\gamma$ cascade in complementary (fission partner) nuclide ^{162}Gd .

In the SF decay of ^{248}Cm , 2013Rz02 assign the 886 γ to ^{87}Se . This is based on coincidences with the complementary fission partner of ^{158}Sm and coincidences with a 92 γ . 2013Ma22 observed a 92 γ in the decay of ^{87}As into ^{87}Se , providing further support for the assignment to ^{87}Se . Thus, the 886 γ and corresponding 886-keV level are not adopted.

 ^{88}Se Levels

E(level)	J^π	Comments
0.0	0^+	
886.0?	(2^+)	J^π : systematics of even-even nuclides.

 $\gamma(^{88}\text{Se})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
886.0 [†]	886.0?	(2^+)	0.0	0^+

[†] Placement of transition in the level scheme is uncertain.

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Legend

Level Scheme- - - - - \blacktriangleright γ Decay (Uncertain)