^{248}Cm SF decay   1991Ho16

	History			
Type	Author	Citation	Literature Cutoff Date	
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2006	

Parent: ^{248}Cm: E=0; J^{π}=0$^+$; $T_{1/2}$=3.48×10^5 y 6; %SF decay=?

^{248}Cm SF decay (1991Ho16). 6.5×10^4 fissions/s. Argonne Notre Dame γ facility 10 Bi-germanate-suppressed Ge detectors, 2 Leps, 1 array of 50 Bi-Ge scin used as a multiplicity filter. They select only fission fragments with an average γ multiplicity of ≈10. The assignment is mainly based on coin with complementary Ba isotopes.

^{101}Nb Levels

E(level)	$J^{\pi \dagger}$
0.0	(5/2$^+$)
119.4	(7/2$^+$)
255.4	(9/2$^+$)
532.2	(11/2$^+$)
729.3	(13/2$^+$)
1093.3	(15/2$^+$)

† As given by 1991Ho16.

$\gamma(^{101}$Nb)

$E_{\gamma}^{\ddagger}$	$I_{\gamma}^{\dagger}$	E_i(level)	J_i^{π}	E_f	J_f^{π}
119.4	100	119.4	(7/2$^+$)	0.0	(5/2$^+$)
136.0	100	255.4	(9/2$^+$)	119.4	(7/2$^+$)
197.1	36	729.3	(13/2$^+$)	532.2	(11/2$^+$)
255.4	14	255.4	(9/2$^+$)	0.0	(5/2$^+$)
276.8	45	532.2	(11/2$^+$)	255.4	(9/2$^+$)
364.0	14	1093.3	(15/2$^+$)	729.3	(13/2$^+$)
412.8	6	532.2	(11/2$^+$)	119.4	(7/2$^+$)
473.9	24	729.3	(13/2$^+$)	255.4	(9/2$^+$)
561.1	2	1093.3	(15/2$^+$)	532.2	(11/2$^+$)

† From 1991Ho16.
‡ Calculated by evaluator from the levels of 1991Ho16.

^{248}**Cm SF decay**　　**1991Ho16**

Level Scheme

Intensities: Type not specified

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$

$^{101}_{41}$Nb$_{60}$