

^{248}Cm SF decay 1999Ur01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov and A. Rodionov, F. G. Kondev		NDS 112, 855 (2011)	31-Oct-2010

Parent: ^{248}Cm : $E=0.0$; $J^\pi=0^+$; $T_{1/2}=3.48\times 10^5$ y 6; %SF decay=8.39 16

1999Ur01: ^{133}Sn [from ^{248}Cm SF decay]; measured high-fold coincidences of prompt γ -rays following SF decay of ^{248}Cm ; EUROGAM-2 array.

 ^{133}Sn Levels

E(level) [†]	J^π [†]	Comments
0	(7/2 ⁻)	possible configuration $\nu(f_{7/2}^{+1})$.
1560.9 5	(9/2 ⁻)	possible configuration $\nu(h_{9/2}^{+1})$.
(2.69×10^3 20)	(13/2 ⁺)	E(level): Estimated in 1999Ur01 from the observed (10 ⁺) state at 2434 keV in ^{134}Sb , assigned the ($\pi g_{7/2} \nu i_{13/2}$) ₁₀₊ configuration, and the estimated proton-neutron residual interactions energies of -722 keV ($(\pi g_{7/2} \nu i_{13/2})_{10+}$) and -462 keV ($(\pi g_{7/2} \nu f_{7/2})_{7-}$). J^π : from systematics (1999Ur01). possible configuration $\nu i_{13/2}^{+1}$.

[†] From Adopted Levels, unless otherwise stated.

 $\gamma(^{133}\text{Sn})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
1561	1560.9	(9/2 ⁻)	0	(7/2 ⁻)	E_γ : Observed in prompt coincidence with 349 γ from the fission partner ^{112}Pd .

 ^{248}Cm SF decay 1999Ur01Level Scheme