^{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; $J^\pi=0^+$; $T_{1/2}=3.48\times10^5$ 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}Y Levels

E(level)	J^π[†]
0.0	$(5/2^+)$
128.2	$(7/2^+)$
291.6	$(9/2^+)$
494.2	$(11/2^+)$
724.9	$(13/2^+)$

[†] From Adopted Levels.

$\gamma(^{101}Y)$

E_γ	I_γ	E_i(level)	J_i^π	E_f	J_f^π
128.2	100	128.2	$(7/2^+)$	0.0	$(5/2^+)$
163.3	100	291.6	$(9/2^+)$	128.2	$(7/2^+)$
202.6	43	494.2	$(11/2^+)$	291.6	$(9/2^+)$
230.7	23	724.9	$(13/2^+)$	494.2	$(11/2^+)$
291.6	6	291.6	$(9/2^+)$	0.0	$(5/2^+)$
365.9	13	494.2	$(11/2^+)$	128.2	$(7/2^+)$
433.3	12	724.9	$(13/2^+)$	291.6	$(9/2^+)$

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Level Scheme

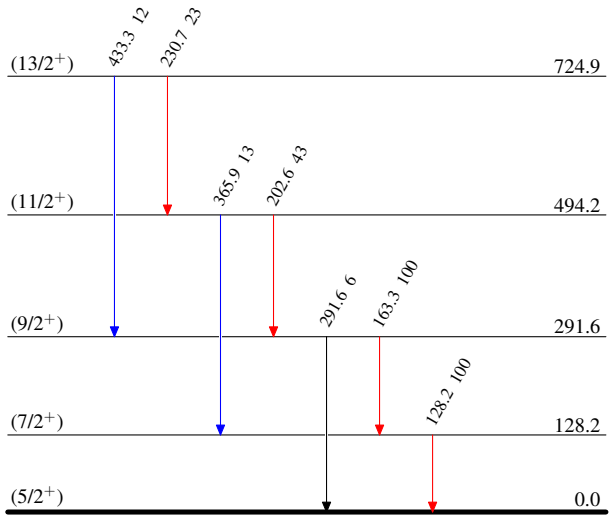
Intensities: Type not specified

Legend

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

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

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



$^{101}_{39}Y_{62}$