^{243}Cm ε decay 1958Ch38

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja, E. A. Mccutchan	NDS 121, 695 (2014)	30-Sep-2013

Parent: ^{243}Cm: E=0.0; $J^{\pi}=5/2^{+}$; $T_{1/2}$=29.1 y *1*; Q(ε)=7.5 *17*; %ε decay=0.29 *3*

1958Ch38: ^{243}Cm prepared by successive neutron captures in ^{241}Am using the NRX reactor followed by chemical separation.
$T_{1/2}$=1.0 x10^4 years *1* for EC of ^{243}Cm determined from relative activity intensities and mass ratios in Cm and activity in ^{243}Am.

^{243}Am Levels

E(level)	J^{π}	$T_{1/2}$	Comments
0.0	$5/2^{-}$	7364 y *22*	J^{π},$T_{1/2}$: From Adopted Levels.

ε radiations

E(decay)	E(level)	Iε[†]	Log *ft*	Comments
(7.5 *17*)	0.0	0.29 *3*	≤7.2	εM+=1.000

[†] Absolute intensity per 100 decays.