

$^{128}\text{I}$   $\varepsilon$  decay    1979Sc06

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Zoltan Elekes and Janos Timar		NDS 129, 191 (2015)	28-Feb-2015

Parent:  $^{128}\text{I}$ : E=0.0;  $J^\pi=1^+$ ;  $T_{1/2}=24.99$  min 2;  $Q(\varepsilon)=1255$  4;  $\%\varepsilon+\%\beta^+$  decay=6.9 8

$^{128}\text{I}-\%\varepsilon+\%\beta^+$  decay:  $\%\beta^-=93.1$  8 in  $^{128}\text{I}$   $\beta^-$  decay. See comment for  $^{128}\text{I}$   $\beta^-$  decay.

**1979Sc06:**  $^{127}\text{I}(n,\gamma)$ , no chemical separation; Ge G.

**1994Mi35:**  $^{127}\text{I}(n,\gamma)$ , no chemical separation: semi  $\gamma$ ,  $\beta$ ,  $\beta\gamma$ .

$T_{1/2}$ : from Adopted Levels.

 $^{128}\text{Te}$  Levels

E(level)	$J^\pi$	$T_{1/2}$
0.0	$0^+$	$7.7 \times 10^{24}$ y 4
743.50 10	$2^+$	3.30 ps 3

 $\varepsilon, \beta^+$  radiations

E(decay)	E(level)	$I\beta^+ \dagger$	$I\varepsilon \dagger$	Log ft	$I(\varepsilon+\beta^+) \dagger$	Comments
(512 4)	743.50			1.67 5	6.01 6	$\varepsilon K=0.8458$ 2; $\varepsilon L=0.1217$ 1; $\varepsilon M+=0.03252$ 3
(1255 4)	0.0	0.038 3	98.3 3	5.05 5	98.3 3	av $E\beta=113.7$ 18; $\varepsilon K=0.8540$ ; $\varepsilon L=0.11510$ 2; $\varepsilon M+=0.030471$ 6

$\dagger$  For absolute intensity per 100 decays, multiply by 0.069 8.

 $\gamma(^{128}\text{Te})$ 

$E_\gamma$	$I_\gamma \dagger \#$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult. $\ddagger$	Comments
743.5 1	100	743.50	$2^+$	0.0	$0^+$	E2	$I_\gamma$ : $I_\gamma=0.115$ 3 per 100 decays of the parent ( <a href="#">1994Mi35</a> ).

$\dagger$  Relative to  $I(442.901\gamma$  in  $^{128}\text{Xe})=100$ .

$\ddagger$  From Adopted Levels, Gammas.

# For absolute intensity per 100 decays, multiply by 0.00115 14.

$^{128}\text{I}$   $\varepsilon$  decay    1979Sc06Decay SchemeIntensities:  $I_{(\gamma+ce)}$  per 100 parent decays