

**$^{114}\text{I}\beta^+$  decay (2.1 s+6.2 s) 1995ZiZZ**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 113, 515 (2012)	1-Jan-2012

Parent:  $^{114}\text{I}$ : E=0.0;  $J^\pi=1^+$ ;  $T_{1/2}=2.1$  s 2;  $Q(\beta^+)=9.1\times 10^3$  3;  $\% \beta^+$  decay=100.0  
 Parent:  $^{114}\text{I}$ : E=265.9;  $J^\pi=(7)$ ;  $T_{1/2}=6.2$  s 5;  $Q(\beta^+)=9.1\times 10^3$  3;  $\% \beta^+$  decay=100.0  
 Activity:  $^{92}\text{Mo}(^{32}\text{S},\text{xpyn})$  E=220 MeV ms UNISOR (1992ZiZW,1995ZiZZ).  
 Activity:  $^{63}\text{Cu}(^{58}\text{Ni},\text{xpyn})$  E=290 MeV (1977Ki11).  
 Measured:  $\gamma$ , x-ray, semi, ce, mini orange spectrometer.  
 Some of the unplaced  $\gamma$  could belong to the 6.2 s decay.  
 The decay scheme is from 1992ZiZW, no beta feeding derived.

$^{114}\text{Te}$  Levels

E(level)	$J^\pi^\dagger$	$T_{1/2}^\dagger$	E(level)	$J^\pi^\dagger$	E(level)
0	$0^+$	15.2 min 7	1483.6 4	$4^+$	2296.2 3
708.75 19	$2^+$		1794.3 3	$(2^+)$	2482.3 4
1348.1 3	$(0^+)$		1860.0 3	$(0^+)$	3008.2 3
1391.2 3	$2^+$		1949.6 4	$(3^+)$	3550.3 4

$^\dagger$  From Adopted Levels.

$\gamma(^{114}\text{Te})$

$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^{\ddagger}$	$E_f$	$J_f^\pi$	$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^{\ddagger}$	$E_f$	$J_f^\pi$
708.75	$2^+$	708.8 2	100 3	0	$0^+$	1794.3	$(2^+)$	1793.4 9	0.4 2	0	$0^+$
1348.1	$(0^+)$	639.4 2	1.4 3	708.75	$2^+$	1860.0	$(0^+)$	1151.2 2	1.6 3	708.75	$2^+$
1391.2	$2^+$	682.5 3	17 8	708.75	$2^+$	1949.6	$(3^+)$	558.4 2	1.0 2	1391.2	$2^+$
		1391.0 8	0.2 1	0	$0^+$	2296.2		1587.4 2	1.7 4	708.75	$2^+$
1483.6	$4^+$	774.9 3	0.4 2	708.75	$2^+$	2482.3		1091.1 2	3.7 5	1391.2	$2^+$
1794.3	$(2^+)$	310.7 4	0.6 2	1483.6	$4^+$	3008.2		2299.4 2	3.0 6	708.75	$2^+$
		403.3 4	0.4 2	1391.2	$2^+$	3550.3		2159.1 2	1.5 4	1391.2	$2^+$
		1085.6 4	3.8 5	708.75	$2^+$						

$^\dagger$  From 1995ZiZZ.  $I_\gamma$  have to be considered as tentative due to the difficulty to discriminate the two half-lives.

$^\ddagger$  For absolute intensity per 100 decays, multiply by 0.468.

$^x$   $\gamma$  ray not placed in level scheme.

