

<sup>114</sup>Iβ<sup>+</sup> decay (6.2 s) 1992ZiZW

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

Parent: <sup>114</sup>I: E=265.9; J<sup>π</sup>=(7); T<sub>1/2</sub>=6.2 s 5; Q(β<sup>+</sup>)=9.1×10<sup>3</sup> 3; %β<sup>+</sup> decay=91 2

Activity: <sup>63</sup>Cu(<sup>58</sup>Ni,xpyn) E=290 MeV, UNISOR on-line separator.

Measured: γ, x-ray, semi.

Some of the unplaced γ could belong to the 2.1 s decay.

The level scheme is incomplete, no beta feedings can be given.

<sup>114</sup>Te Levels

E(level)	J <sup>π</sup> †	T <sub>1/2</sub> †	E(level)	J <sup>π</sup> †	E(level)
0	0 <sup>+</sup>	15.2 min 7	1949.6 4	(3 <sup>+</sup> )	2695.0 3
708.74 19	2 <sup>+</sup>		2026.8 3	4 <sup>+</sup>	3143.5 3
1391.2 3	2 <sup>+</sup>		2217.5 4	6 <sup>+</sup>	3301.7 5
1483.8 3	4 <sup>+</sup>		2241.9 4		3346.2 3
1794.4 4	(2 <sup>+</sup> )		2275.9 4		

† From Adopted Levels.

γ(<sup>114</sup>Te)

E <sub>γ</sub>	I <sub>γ</sub> †	E <sub>i</sub> (level)	J <sub>i</sub> <sup>π</sup>	E <sub>f</sub>	J <sub>f</sub> <sup>π</sup>	E <sub>γ</sub>	I <sub>γ</sub> †	E <sub>i</sub> (level)	J <sub>i</sub> <sup>π</sup>	E <sub>f</sub>	J <sub>f</sub> <sup>π</sup>
310.7 4	0.6 1	1794.4	(2 <sup>+</sup> )	1483.8	4 <sup>+</sup>	<sup>x</sup> 1353.7 6	0.3 2				
403.3 4	0.4 1	1794.4	(2 <sup>+</sup> )	1391.2	2 <sup>+</sup>	1391.0 8	0.2 1	1391.2	2 <sup>+</sup>	0	0 <sup>+</sup>
543.0 2	4 1	2026.8	4 <sup>+</sup>	1483.8	4 <sup>+</sup>	<sup>x</sup> 1446.1 4	0.8 2				
558.4 2	1.0 2	1949.6	(3 <sup>+</sup> )	1391.2	2 <sup>+</sup>	<sup>x</sup> 1559.7 5	0.7 2				
635.6 2	8 2	2026.8	4 <sup>+</sup>	1391.2	2 <sup>+</sup>	<sup>x</sup> 1568.2 2	1.7 4				
682.5 3	34 10	1391.2	2 <sup>+</sup>	708.74	2 <sup>+</sup>	<sup>x</sup> 1606.6 4	1.4 3				
708.8 2	100 3	708.74	2 <sup>+</sup>	0	0 <sup>+</sup>	1659.6 2	2.0 4	3143.5		1483.8	4 <sup>+</sup>
733.7 3	0.8 2	2217.5	6 <sup>+</sup>	1483.8	4 <sup>+</sup>	<sup>x</sup> 1680.5 7	0.4 2				
758.2 3	0.8 2	2241.9		1483.8	4 <sup>+</sup>	<sup>x</sup> 1698.4 5	0.6 2				
774.9 3	16.0 9	1483.8	4 <sup>+</sup>	708.74	2 <sup>+</sup>	<sup>x</sup> 1753.6 3	1.0 3				
792.1 2	1.1 2	2275.9		1483.8	4 <sup>+</sup>	<sup>x</sup> 1767.5 8	0.4 2				
850.4 7	2.8 4	2241.9		1391.2	2 <sup>+</sup>	1793.4 9	0.4 2	1794.4	(2 <sup>+</sup> )	0	0 <sup>+</sup>
<sup>x</sup> 860.4 6	0.3 1					1817.9 4	0.9 3	3301.7		1483.8	4 <sup>+</sup>
<sup>x</sup> 939.0 5	0.4 2					1862.4 2	2.6 5	3346.2		1483.8	4 <sup>+</sup>
1085.6 9	3.8 5	1794.4	(2 <sup>+</sup> )	708.74	2 <sup>+</sup>	1986.3 6	0.5 2	2695.0		708.74	2 <sup>+</sup>
1194.3 7	0.4 2	3143.5		1949.6	(3 <sup>+</sup> )	2435.1 4	1.0 4	3143.5		708.74	2 <sup>+</sup>
1211.0 9	0.3 1	2695.0		1483.8	4 <sup>+</sup>	<sup>x</sup> 2762.8 5	0.4 2				
<sup>x</sup> 1219.6 2	1.5 3					<sup>x</sup> 3321.1 9	0.2 2				
<sup>x</sup> 1248.8 12	0.2 1					<sup>x</sup> 3851.8 4	0.1 1				
1303.8 2	4.2 5	2695.0		1391.2	2 <sup>+</sup>	<sup>x</sup> 3912.7 1	0.1 1				

† For absolute intensity per 100 decays, multiply by 0.91 2.

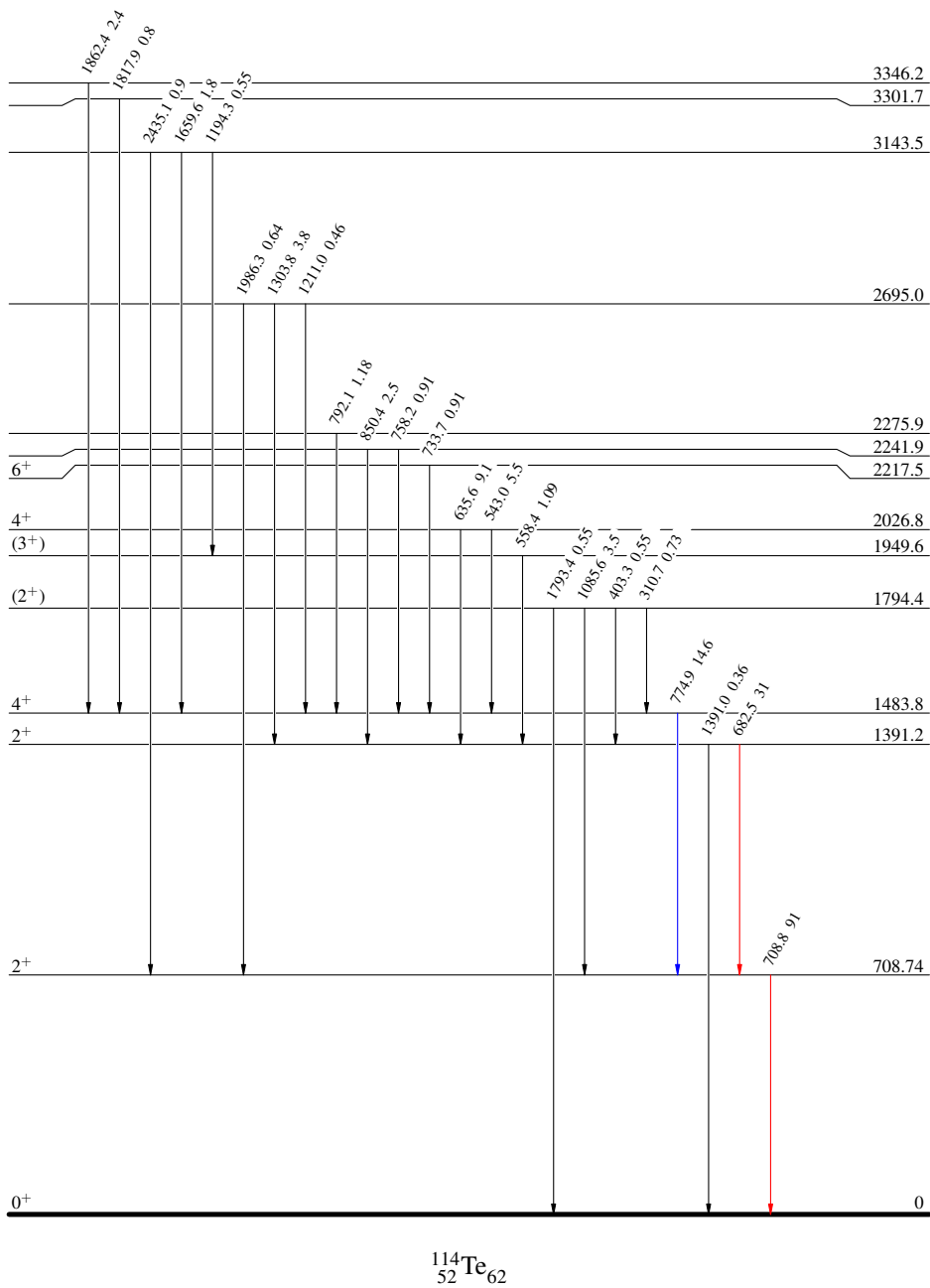
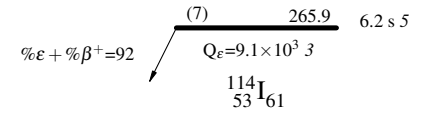
<sup>x</sup> γ ray not placed in level scheme.

$^{114}\text{I} \beta^+$  decay (6.2 s) 1992ZiZW

## Decay Scheme

Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$

Intensities:  $I_{(\gamma+ce)}$  per 100 parent decays

15.2 min 7

 $^{114}_{52}\text{Te}_{62}$