

$^{130}\text{Te}(^{64}\text{Ni},\text{X}\gamma)$ **1998Zh09**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 93, 33 (2001)	11-May-2001

E=275 MeV. Measured $E\gamma$, $I\gamma$, $\gamma\gamma(\theta)$, $\gamma\gamma(t)$ using GASP array of 40 Ge detectors.

 ^{130}Te Levels

E(level)	J^π [†]	T _{1/2}	Comments
0.0	0 ⁺		
839.5 1	2 ⁺		
1588.5 2	2 ⁺		
1633.0 2	4 ⁺		
1815.7 2	6 ⁺		
1885.4 4	2 ⁺		
1964.8 4	0 ⁺		
1981.6 2	4 ⁺		
2101.3 2	5 ⁻		
2138.8 2	3 ⁺		
2146.8 2	7 ⁻	115 ns	T _{1/2} : from Adopted Levels.
2331.2 4	4 ⁺		
2405.1 3	6 ⁻		
2432.3 2	7 ⁻		
2435.8 4	4 ⁻		
2648.9 3	8 ⁺		
2649+x	(10 ⁺)	4.2 μs 9	T _{1/2} : from observation of delayed 6 ⁺ to 4 ⁺ to 2 ⁺ cascade between beam bursts (1998Zh09). This value is in disagreement with 1.90 μs 8 from 2001Ge07 . E(level): x<90 keV. Other: x<25 keV (2001Ge07).
2878.8 4			
3081.8 4			

[†] As given by [1998Zh09](#), see also Adopted Levels.

 $\gamma(^{130}\text{Te})$

E γ	I γ	E $_f$ (level)	J $^\pi_i$	E $_f$	J $^\pi_f$	I $_{(\gamma+ce)}$	Comments
46		2146.8	7 ⁻	2101.3	5 ⁻	≈ 0.05	E γ : existence required by $\gamma\gamma$ coin data. I $_{(\gamma+ce)}$: branching(46 γ) $\approx 4\%$ (1998Zh09).
182.7 1	10.7 11	1815.7	6 ⁺	1633.0	4 ⁺		
258.4 3	1.1 1	2405.1	6 ⁻	2146.8	7 ⁻		
285.5 3	1.7 2	2432.3	7 ⁻	2146.8	7 ⁻		
303.7 3	1.0 1	2405.1	6 ⁻	2101.3	5 ⁻		
330.9 3	1.2 1	2146.8	7 ⁻	1815.7	6 ⁺		
331.0 1	4.8 5	2432.3	7 ⁻	2101.3	5 ⁻		
334.5 3	2.5 3	2435.8	4 ⁻	2101.3	5 ⁻		
348.6 1	4.6 5	1981.6	4 ⁺	1633.0	4 ⁺		
x458.3 [†] 3	0.3						
468.3 1	13.7 14	2101.3	5 ⁻	1633.0	4 ⁺		
502.0 3	0.9 1	2648.9	8 ⁺	2146.8	7 ⁻		
505.8 3	0.5 1	2138.8	3 ⁺	1633.0	4 ⁺		
550.8 3	1.4 2	2138.8	3 ⁺	1588.5	2 ⁺		
x601.6 [†] 3	0.3						
698.2 3	0.5 1	2331.2	4 ⁺	1633.0	4 ⁺		
732.1 3	0.8 1	2878.8		2146.8	7 ⁻		
749.0 1	17.3 17	1588.5	2 ⁺	839.5	2 ⁺		

Continued on next page (footnotes at end of table)

$^{130}\text{Te}(^{64}\text{Ni},\text{X}\gamma)$ **1998Zh09 (continued)** $\gamma(^{130}\text{Te})$ (continued)

E_γ	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	E_γ	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
793.5 1	100 10	1633.0	4 ⁺	839.5	2 ⁺	1045.9 3	1.6 2	1885.4	2 ⁺	839.5	2 ⁺
833.4 3	1.2 1	2648.9	8 ⁺	1815.7	6 ⁺	1125.3 3	1.0 1	1964.8	0 ⁺	839.5	2 ⁺
839.5 1	531 53	839.5	2 ⁺	0.0	0 ⁺	1142.0 3	2.8 3	1981.6	4 ⁺	839.5	2 ⁺
935.0 3	0.8 1	3081.8		2146.8	7 ⁻	1298.9 3	2.8 3	2138.8	3 ⁺	839.5	2 ⁺

[†] Above 7⁻ isomer.^x γ ray not placed in level scheme.

