

$^{126}\text{Te}(\text{d,d}')$ 1997Ot02,1966Ki04

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	H. Iimura, J. Katakura, S. Ohya		NDS 180, 1 (2022)	1-Oct-2021

1997Ot02: E=24 MeV, enriched target 97.83 %, Q3D magnetic spectrographs, $\theta=25, 35, 45, 60, 70^\circ$. FWHM=4-6keV.

1966Ki04: E=15 MeV magnetic spectrograph, FWHM=40 keV, $\theta=40^\circ, 60^\circ$; enriched target.

 ^{126}Te Levels

E(level) [‡]	J π [†]	Comments
0.0		
666.34 4	+	
1361.36 14		
1420.27 10		
1580?#		
1680?#		
1775.94 23		
1873.5 7		
2013.15 10		
2045.5 4		
2114.1 5		
2184.46 25	$\pi=-$	(1966Ki04).
2218.12 9		
2309.15 21	$\pi=-$	(1966Ki04).
2350.8 12		
2385.85 5	$\pi=-$	(1966Ki04).
2420.80 17		
2444.8? 12	$\pi=-$	(1966Ki04).
2479.2? 4		Unresolved doublet with the line of 2485 keV of ^{128}Te .
2496.4 6		
2503.8 7		
2516.9 11		
2534.4 5		
2578.0 4		
2585.6 8		
2640.0 4		
2678.9 6		
2702.9? 14		May be the second 3^- line of 2730 10 of ^{130}Te (1997Ot02).
2730.6 4	$\pi=-$	(1966Ki04).
2744.2 3		
2765.4 14		
2783.06 23		
2799.8 14		
2812.6 6		
2814.3 3		
2834.2 4		
2840.1 8	$\pi=+$	(1966Ki04).
2862.93 9		
2877.2 4		
2884.9? 8		
2912.4 5		
2929.5 8		
2955.5 10		
2974.48 19		
2977.8 6		
2995.9 4		
2999.4 5		

Continued on next page (footnotes at end of table)

 $^{126}\text{Te}(\text{d},\text{d}')$ [1997Ot02](#), [1966Ki04](#) (continued)

 ^{126}Te Levels (continued)

<u>E(level)[‡]</u>	<u>E(level)[‡]</u>	<u>E(level)[‡]</u>	<u>E(level)[‡]</u>
3026.4 6	3101.14 10	3159.71 23	3243.6 4
3036.9? 7	3114.0 3	3173.7 5	3256.9 12
3049.7 7	3126.9 3	3202.2 9	3268.8 13
3069.6 5	3141.8 5	3225.1 4	
3075.5 7	3149.2 4	3231.36 23	

[†] Parity values were inferred from similarity of angular distributions with levels of same parity in even Sn isotopes ([1966Ki04](#)).

[‡] From [1997Ot02](#), unless otherwise noted.

[#] From [1966Ki04](#).