

⁴⁶Ti(³He,t) 1972Be38,1971Fa02

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. -c. Wu	NDS 91, 1 (2000)	15-Jul-2000

E=24.6 MeV (1972Be38); split-pole magnetic spectrometer, position-sensitive detectors; DWBA analysis of angular distributions.
 E=37.7 MeV (1971Fa02); Si(Li), Si EDE counter telescope, or quadrupole lens magnetic spectrometer, detector not specified;
 DWBA analysis of angular distributions.

Renormalization of energy scale in 1972Be38 by a factor of 0.987 suggested by 1981Po07 to make levels agree with γ results using Ge(Li) detectors.

Additional J assignments were proposed by 1971Fa02, but correlation with higher resolution measurements is uncertain.

Others: 1982Ta05 (study of GDR), 1974Ha35 (mass from $Q(\beta^-)$ value measurement), 1973PrZK, 1971Be29, 1971Ki17.

No $J=0^-$ state observed (1979Ja10).

⁴⁶V Levels

E(level) [†]	J ^π [‡]	L [‡]	E(level) [†]	J ^π [‡]	L [‡]	E(level) [†]
0.0 [#]	0 ⁺	0	2076 15			3223 15
815 15	(3 ⁺)	(4+2)	2100 15			3259 15
924 15	(1 ⁺)	2	2329 15			3309 15
1007 [#] 15	2 ⁺	2	2481 15	(1 ⁺ ,2 ⁺)	(2)	3420 15
1236 15	(5 ⁺ ,6 ⁺)	(6)	2598 15			3663 15
1264 15			2721 15			3706 15
1393 15	(3 ⁺)	(2+4)	2783 15			3780 15
1448 15			2900 15			3841 15
1630 15	(7 ⁺ ,5 ⁺ ,6 ⁺)		2915 15			3922 15
1692 15			3016 15			3932 15
1756 15	(5 ⁺ ,6 ⁺)		3134 15			≈4010 [@]
1970 15			3180 15			≈4330 [@]

[†] From 1972Be38, except as noted.

[‡] Based on analysis of angular distributions (1971Fa02).

[#] Isobaric analog state (1971Fa02).

[@] From 1971Fa02.