Coulomb excitation 1967Af03,1962Ri09,1956Te26

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	T. W. Burrows	NDS 108, 923 (2007)	20-Feb-2007

1956Te26: (α,$\alpha'\gamma$) E=3-7 MeV. Measured γ's, B(E2); NaI.
1962Ri09: (^{20}Ne,^{20}Ne'γ) E=8-15 MeV. Measured B(E2), γ(0°,90°); NaI.
1967Af03: (^{12}C,^{12}C'γ) E=36.8 MeV. Measured γ's, B(E2); NaI.

^{47}Ti Levels

E(level)	J^π[†]	$T_{1/2}$	Comments
0.0	$5/2^-$		
160	$7/2^-$	0.22 ns *7*	B(E2)↑=0.034 *6* $T_{1/2}$: from 1961Ho05 (Ag(t); NaI. E≤4 MeV). B(E2)↑: Unweighted av of 0.0281 *42* (1962Ri09) and 0.040 *6* (1956Te26).
1250?	$9/2^-$		B(E2)↑: 0.0062 *12* (1967Af03) assuming no contamination of 1250γ from 1.44 to 0.16 MeV transition. Not adopted by evaluator due to problems associated with 1250γ (see Adopted Gammas).

[†] From the Adopted Levels.

$\gamma(^{47}Ti)$

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.	δ	Comments
160	$7/2^-$	160 *2*	100 *15*	0.0	$5/2^-$	M1+E2	0.099 *9*	E_γ,I_γ: from 1956Te26. δ: from adopted $T_{1/2}$=210 ps *6*, Eγ=159.381, J_i, J_f, and B(E2)↑. See discussion in Adopted Gammas.
1250?	$9/2^-$	1090	49 *2*	160	$7/2^-$			
		1250[‡]	52 *2*	0.0	$5/2^-$			I_γ: assuming no contamination from 1.44 to 0.16 MeV transition. Discrepant with other results. See discussion in Adopted Gammas.

[†] From 1967Af03,except as noted.
[‡] Placement of transition in the level scheme is uncertain.

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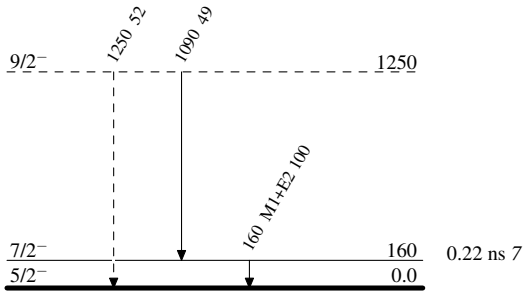
Legend

Level Scheme

Intensities: % photon branching from each level

γ Decay (Uncertain)



$^{47}_{22}Ti_{25}$