

$^{50}\text{Ti}({}^3\text{He},\text{d}\gamma), (\text{d},\text{n}\gamma)$ 1970Mo12,1976Wh01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Wang Jimin and Huang Xiaolong		NDS 144, 1 (2017)	1-Mar-2016

All data from 1970Mo12, except as noted.

For $^{50}\text{Ti}({}^3\text{He},\text{d}\gamma)$

1970Mo12: E=10 MeV, measured E_γ , I_γ , and $\sigma(E(\text{d}),E_\gamma)$.

For $^{50}\text{Ti}(\text{d},\text{n}\gamma)$

1976Wh01: E=3.5-5 MeV, measured E_γ , $\gamma(\text{t})$ using a direct timing technique.

 ^{51}V Levels

E(level) [†]	T _{1/2}	Comments
0.0		
320.2 7		
929.1 8	<10 ps	T _{1/2} : from (1976Wh01). Other measurement: 70 ps 25 (1970Si21).
1607.0 10		
1813.1 8		
2410.7 8		
2547.1 13		
2678.1 13		
2699.0 15		

[†] From level scheme and E_γ 's, using least-squares fit to data.

 $\gamma(^{51}\text{V})$

<u>E_i(level)</u>	<u>E_γ</u>	<u>I_γ[†]</u>	<u>E_f</u>	<u>E_i(level)</u>	<u>E_γ</u>	<u>I_γ[†]</u>	<u>E_f</u>	<u>E_i(level)</u>	<u>E_γ</u>	<u>I_γ[†]</u>	<u>E_f</u>
320.2	320 I	100	0.0	1813.1	1492 I	16 [#] 7	320.2	2547.1	1618 I	100 [‡]	929.1
929.1	609 I	22 4	320.2		1814 I	84 [#] 7	0.0	2678.1	1749 I	100 [‡]	929.1
	929 I	78 4	0.0	2410.7	2091 I	82 [‡] 6	320.2	2699.0	1092 I	100 [@]	1607.0
1607.0	1607 I	100 [‡]	0.0		2410 I	18 [‡] 6	0.0				

[†] % photon branching from each level.

[‡] Other decay modes are <5%.

[#] Other decays modes are <3%.

[@] Other decays modes are <6%.

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Level Scheme

Intensities: % photon branching from each level

