

$^{40}\text{Ar}(^9\text{Be},3n\gamma)$ 1982Ra01

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

E=30 MeV.

Measured: $E\gamma$, $\gamma\gamma$ coin, $T_{1/2}$ from DSAM.

Supplementary data obtained from $^{43}\text{Ca}(\alpha, n\gamma)$ at $E(\alpha)=12-17$ MeV.

 ^{46}Ti Levels

E(level)	$J^\pi^\dagger$	$T_{1/2}^\ddagger$	E(level)	$J^\pi^\dagger$	$T_{1/2}^\ddagger$	E(level)	$J^\pi^\dagger$	$T_{1/2}^\ddagger$
0.0 [#]	0 ⁺ [#]		4524			6242.2 [#] 9	10 ⁺ [#]	1.0 ps 3
889.2 [#] 2	2 ⁺ [#]	>2 ps	4662.5 [@] 6	6 ⁻ [@]	1.4 ps 4	6830.0 [@] 13	9 ⁻ [@]	0.52 ps 8
2009.8 [#] 3	4 ⁺ [#]	1.5 ps 3	4897.4 [#] 6	8 ⁺ [#]	0.45 ps 9	7942.3 [#] 11	11 ⁺ [#]	0.31 ps 8
3059 [@]	3 ⁻ [@]		5024			8218.8 [#] 8	12 ⁺ [#]	0.57 ps 6
3299.3 [#] 5	6 ⁺ [#]	1.0 ps 2	5197.5 [@] 12	7 ⁻ [@]	0.6 ps 2	10042.5 [#] 12	12 ⁺ [#]	0.6 ps 2
3442 [@]	4 ⁻ [@]		6151.2 [@] 8	8 ⁻ [@]	0.46 ps 12			
3852.4 [@] 5	5 ⁻ [@]	3.8 ps 17	6201					

[†] From Adopted Levels, except for 10042.5 which is based on probable assignment to the g.s. band.

[‡] From DSAM analysis of those γ 's with ΔE specified.

[#] Assigned as member of ground-state band.

[@] Assigned as member of K=3 band.

 $\gamma(^{46}\text{Ti})$

$E_\gamma^\dagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	$E_\gamma^\dagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π
275.1 2	8218.8	12 ⁺	7942.3	11 ⁺	1344.8 6	6242.2	10 ⁺	4897.4	8 ⁺
383	3442	4 ⁻	3059	3 ⁻	1345.1 10	5197.5	7 ⁻	3852.4	5 ⁻
410	3852.4	5 ⁻	3442	4 ⁻	1432	3442	4 ⁻	2009.8	4 ⁺
793	3852.4	5 ⁻	3059	3 ⁻	1488.7 5	6151.2	8 ⁻	4662.5	6 ⁻
810	4662.5	6 ⁻	3852.4	5 ⁻	1598.1 4	4897.4	8 ⁺	3299.3	6 ⁺
889.2 2	889.2	2 ⁺	0.0	0 ⁺	1632.5 6	6830.0	9 ⁻	5197.5	7 ⁻
1049	3059	3 ⁻	2009.8	4 ⁺	1700.1 7	7942.3	11 ⁺	6242.2	10 ⁺
1120.6 2	2009.8	4 ⁺	889.2	2 ⁺	1725	5024		3299.3	6 ⁺
1221.4 5	4662.5	6 ⁻	3442	4 ⁻	1823.5 8	10042.5	12 ⁺	8218.8	12 ⁺
1225	4524		3299.3	6 ⁺	1842.6 4	3852.4	5 ⁻	2009.8	4 ⁺
1289.5 4	3299.3	6 ⁺	2009.8	4 ⁺	1978.0 7	8218.8	12 ⁺	6242.2	10 ⁺
1304	6201		4897.4	8 ⁺					

[†] ΔE not reported for many of the γ 's.

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Level Scheme

