

$^{51}\text{V}(^3\text{He},\text{d}\gamma)$ **1971Sp12**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yang Dong, Huo Junde		NDS 128, 185 (2015)	10-Jul-2015

E=11.0 MeV, measured lifetime of levels by DSAM, a 37.5 cm³ Ge(Li) of FWHM: 3.5 keV for 1.33 MeV.

 ^{52}Cr Levels

E(level)	J^π	$T_{1/2}^\dagger$	E(level)	J^π	$T_{1/2}^\dagger$	E(level)	J^π	$T_{1/2}^\dagger$
0.0	0 ⁺		3114	6 ⁺	>1.8 ps	3772	2 ⁺	
1434	2 ⁺	0.69 ps +31-17	3162	2 ⁺	0.08 ps +4-3	3947	2 ⁺	0.10 ps +4-3
2369	4 ⁺	1.04 ps +35-17	3414	4 ⁺	0.22 ps +8-5	4015	5 ⁺	0.58 ps +32-19
2766	4 ⁺	1.4 ps +5-3	3472	3 ⁺	>1.9 ps	4040	4 ⁺	0.51 ps +25-14
2965	2 ⁺	0.47 ps +22-13	3617	5 ⁺	>0.76 ps	4563	3 ⁻	0.27 ps +12-6

[†] From DSAM.

[‡] From Adopted Levels.

 $\gamma(^{52}\text{Cr})$

$E_\gamma^\dagger$	$I_\gamma^\ddagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	$E_\gamma^\dagger$	$I_\gamma^\ddagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π
346	1.2 2	3114	6 ⁺	2766	4 ⁺	934	100	2369	4 ⁺	1434	2 ⁺
398	6 3	2766	4 ⁺	2369	4 ⁺	1248	53 3	3617	5 ⁺	2369	4 ⁺
399		4015	5 ⁺	3617	5 ⁺	1332	94 3	2766	4 ⁺	1434	2 ⁺
503	10 3	3617	5 ⁺	3114	6 ⁺	1434	100	1434	2 ⁺	0.0	0 ⁺
571		4040	4 ⁺	3472	3 ⁺	1531		2965	2 ⁺	1434	2 ⁺
601		4015	5 ⁺	3414	4 ⁺	1578		3947	2 ⁺	2369	4 ⁺
648	94.5 15	3414	4 ⁺	2766	4 ⁺	1645		4015	5 ⁺	2369	4 ⁺
703		3472	3 ⁺	2766	4 ⁺	1728	88 1	3162	2 ⁺	1434	2 ⁺
744	98.8 2	3114	6 ⁺	2369	4 ⁺	1979	5.5 15	3414	4 ⁺	1434	2 ⁺
791		4563	3 ⁻	3772	2 ⁺	2038		3472	3 ⁺	1434	2 ⁺
851	37 4	3617	5 ⁺	2766	4 ⁺	3162	12 1	3162	2 ⁺	0.0	0 ⁺

[†] From level energy differences.

[‡] From [1967Pa22](#).

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Level Scheme

Intensities: Relative I_γ

Legend

- $\longrightarrow$ $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
 $\longrightarrow$ $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
 $\longrightarrow$ $I_\gamma > 10\% \times I_\gamma^{\text{max}}$

