

$^{169}\text{Yb}(n,\gamma)$ E=res 2006MuZX

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	C. M. Baglin ¹ , E. A. Mccutchan ² , S. Basunia ¹		NDS 153, 1 (2018)	1-Oct-2018

$J^\pi(^{169}\text{Yb})=7/2^+$.

All data are taken from the evaluation by [2006MuZX](#).

 ^{170}Yb Levels

E(level) [†]	L	E(lab) eV	Comments
S(n)+0.00061	0	0.61	$\Gamma_\gamma \approx 0.080$ eV.
S(n)+0.000802	5	0.807 5	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.00042$ eV 3.
S(n)+0.00131	1	1.32 1	$\Gamma_\gamma = 0.072$ eV 9, $2g\Gamma_n = 0.000046$ eV 8.
S(n)+0.00218	2	2.19 2	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.00042$ eV 4. $g\Gamma_n\Gamma_\gamma/\Gamma = 0.00022$ eV 2.
S(n)+0.00686	5	6.90 4	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.00035$ eV 5.
S(n)+0.00852	6	8.57 6	$\Gamma_\gamma = 0.075$ eV 11, $2g\Gamma_n = 0.00055$ eV 8. $g\Gamma_n\Gamma_\gamma/\Gamma = 0.0013$ eV 1.
S(n)+0.01224	7	12.31 7	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.0024$ eV 2.
S(n)+0.01246	7	12.53 7	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.0016$ eV 2.
S(n)+0.01338	8	13.46 8	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.0011$ eV 4.
S(n)+0.01457	8	14.66 8	$\Gamma_\gamma = 0.103$ eV 26, $2g\Gamma_n = 0.0062$ eV 6. $g\Gamma_n\Gamma_\gamma/\Gamma = 0.0030$ eV 3.
S(n)+0.0217	1	21.8 1	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.0055$ eV 6.
S(n)+0.0232	2	23.3 1	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.0029$ eV 5.
S(n)+0.0240	2	24.1 1	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.0010$ eV 5.
S(n)+0.0244	2	25.1 1	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.0029$ eV 5.
S(n)+0.0281	2	28.3 1	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.0102$ eV 15.
S(n)+0.0333	2	33.5 2	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.015$ eV 7.
S(n)+0.0337	2	33.9 2	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.009$ eV 5.
S(n)+0.0368	2	37.4 2	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.0026$ eV 16.
S(n)+0.0414	2	41.6 2	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.0112$ eV 26.
S(n)+0.0427	2	43.2 2	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.0057$ eV 23.
S(n)+0.0451	2	45.4 2	$\Gamma_\gamma \approx 0.080$ eV, $2g\Gamma_n = 0.020$ eV 10.

[†] S(n)+E(n)(c.m.), where S(n)(^{170}Yb)=8457.7 12 ([2017Wa10](#)) and E(n)(c.m.)=E(n)(lab)(169/170).