

$^{187}\text{Re}(\gamma,\gamma')$ **1967La15**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 110, 999 (2009)	1-Nov-2008

Other measurements: [1964La02](#), [1964Sh23](#), [1973KaYR](#). ^{187}Re Levels

E(level) [†]	J^π [‡]	$T_{1/2}$ [#]	Comments
0.0	$5/2^+$		
134.0	15	$7/2^+$	
206.0	15	$9/2^-$	
512.0	10	$1/2^+$	17 ps 6
589.0	10	$3/2^+$	>1.4 ps
618.0	10	$3/2^+$	9.7 ps 8
625.0	10	$(1/2^+)$	>1.5 ps
686.0	10	$5/2^-$	6.1 ps 3
773.0	10	$(3/2^+, 5/2^+)$	$T_{1/2}$: other values: 9.1 ps 15 (1973KaYR), 11.5 ps 14 (1964La02).
865.0	10	$3/2^+$	1.5 ps 5
880.0	10	$(5/2^+)$	0.27 ps 9

[†] From a least-squares adjustment from the γ -ray energies, assuming $\Delta E=1$ keV for all γ -rays.[‡] From Adopted Levels.# Recalculated from the adopted branching intensity and the $g_2\Gamma(0)\Gamma(\gamma)/g_1\Gamma$ values assuming indicated spin given by [1967La15](#). $\gamma(^{187}\text{Re})$

$\Gamma(\gamma)$, $\Gamma(0)$, and Γ are the partial widths for γ transition observed, γ to g.s., and total level Γ ; g_2 and g_1 are the statistical factors of excited and g.s., respectively.

E_γ	E_i (level)	J_i^π	E_f	J_f^π	Comments
480	686.0	$5/2^-$	206.0	$9/2^-$	$\Gamma(0)\Gamma(\gamma)g_2/g_1\Gamma=1.52\times10^{-5}$ eV 20.
512	512.0	$1/2^+$	0.0	$5/2^+$	$\Gamma(0)\Gamma(\gamma)g_2/g_1\Gamma=0.9\times10^{-5}$ eV 3.
552	686.0	$5/2^-$	134.0	$7/2^+$	$\Gamma(0)\Gamma(\gamma)g_2/g_1\Gamma=0.35\times10^{-5}$ eV 5.
589	589.0	$3/2^+$	0.0	$5/2^+$	$\Gamma(0)\Gamma(\gamma)g_2/g_1\Gamma<8\times10^{-5}$ eV.
618	618.0	$3/2^+$	0.0	$5/2^+$	$\Gamma(0)\Gamma(\gamma)g_2/g_1\Gamma=2.5\times10^{-5}$ eV 2.
625	625.0	$(1/2^+)$	0.0	$5/2^+$	$\Gamma(0)\Gamma(\gamma)g_2/g_1\Gamma<1\times10^{-5}$ eV.
686	686.0	$5/2^-$	0.0	$5/2^+$	$\Gamma(0)\Gamma(\gamma)g_2/g_1\Gamma=1.84\times10^{-5}$ eV 10.
773	773.0	$(3/2^+, 5/2^+)$	0.0	$5/2^+$	$\Gamma(0)\Gamma(\gamma)g_2/g_1\Gamma=170\times10^{-5}$ eV 12.
865	865.0	$3/2^+$	0.0	$5/2^+$	$\Gamma(0)\Gamma(\gamma)g_2/g_1\Gamma=6\times10^{-5}$ eV 2.
880	880.0	$(5/2^+)$	0.0	$5/2^+$	$\Gamma(0)\Gamma(\gamma)g_2/g_1\Gamma=24\times10^{-5}$ eV 8.

$^{187}\text{Re}(\gamma, \gamma')$ 1967La15Level Scheme