^{190}Os(^{7}Li,6nγ)   **1974Tj02**

		History		
Type	Author	Citation	Literature Cutoff Date	
Full Evaluation	M. S. Basunia	NDS 195,368 (2024)	1-Dec-2023	

Target: enriched ^{190}Os. Projectile: ^{7}Li, E=50, 57 MeV. Measured γ-rays, $\gamma\gamma$-coin, $\gamma\gamma$(t), ^{7}Li,$\gamma(\theta)$, θ=45° and 90°. Detector: Ge(Li).

^{191}Au Levels

The observed band structure (decoupled band) has been interpreted as resulting from the coupling of an h11/2 proton hole to the (oblate) even-core states.

E(level)†	J$^{\pi\#}$	Comments
0.0	3/2$^+$	
266.3‡	(11/2$^-$)	
686.2‡	(15/2$^-$)	
1411.7‡	(19/2$^-$)	
1991.0	(21/2$^+$)	T$_{1/2}$: 10 ns 2 (1974Tj02) reassigned to 2502-keV level (see Adopted Levels).
2186.9‡	(23/2$^-$)	

† Based on E(266 level)=266.3 from 1971Be61.
‡ Member of favored h$_{11/2}$ decoupled band.
$^\#$ From ^{7}Li $\gamma(\theta)$.

γ(^{191}Au)

E$_\gamma$†	I$_\gamma$‡	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Mult.$^\#$	$\alpha$$^{@}$	Comments
419.9	100	686.2	(15/2$^-$)	266.3	(11/2$^-$)	E2	0.0401 6	α(K)=0.0279 4; α(L)=0.00923 13; α(M)=0.002279 32 α(N)=0.000564 8; α(O)=9.64×10^{-5} 13; α(P)=3.07×10^{-6} 4 I$_\gamma$: Iγ(45°/90°)=1.15 (1974Tj02).
579.3	59.6	1991.0	(21/2$^+$)	1411.7	(19/2$^-$)			I$_\gamma$: Iγ(45°/90°)=0.96 (1974Tj02).
725.5	56.4	1411.7	(19/2$^-$)	686.2	(15/2$^-$)	E2	0.01108 16	α(K)=0.00865 12; α(L)=0.001851 26; α(M)=0.000442 6 α(N)=0.0001095 15; α(O)=1.941×10^{-5} 27; α(P)=9.61×10^{-7} 13 I$_\gamma$: Iγ(45°/90°)=1.48 (1974Tj02).
775.2	20.0	2186.9	(23/2$^-$)	1411.7	(19/2$^-$)	E2	0.00963 13	α(K)=0.00759 11; α(L)=0.001563 22; α(M)=0.000372 5 α(N)=9.22×10^{-5} 13; α(O)=1.639×10^{-5} 23; α(P)=8.41×10^{-7} 12 I$_\gamma$: Iγ(45°/90°)=1.26 (1974Tj02).

† From 1974Tj02. Authors mention about observing γ rays between the 7/2$^-$, 9/2$^-$, and 13/2$^-$ 9/2$^-$, and 13/2$^-$ levels, but those data were not listed.
‡ at θ=90°, E=57 MeV. The ratio data of Iγ(45°/90°) are tlisted in comments.
$^\#$ Quadrupole transitions are assumed as stretched E2.
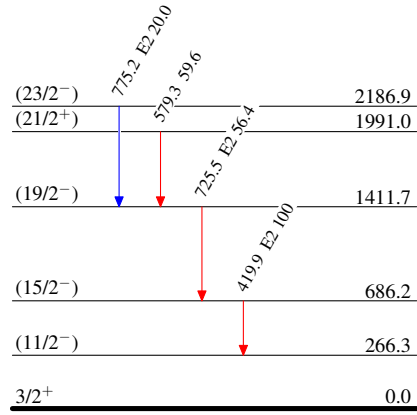$^{@}$ Additional information 1.

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Level Scheme

Intensities: Relative I$_\gamma$

Legend

I$_\gamma <$ 2%$\times$I$_\gamma^{max}$
I$_\gamma <$ 10%$\times$I$_\gamma^{max}$
I$_\gamma >$ 10%$\times$I$_\gamma^{max}$

$^{191}_{79}$Au$_{112}$