¹⁸⁶W(⁷Li,2npγ) 2012MaZP

	History									
Туре	Author	Citation	Literature Cutoff Date							
Full Evaluation	Balraj Singh, ¹ and Jun Chen ²	NDS 169,1 (2020)	15-Oct-2020							

2012MaZP: E=31 MeV ⁷Li beam was produced from the Tandem Van de Graaff at IFIN-HH, Romania. Measured E γ , $\gamma\gamma$, half-life of first 2⁺ state in ¹⁹⁰Os by $\gamma\gamma$ (t) method using an array of eight HPGe detectors and 11 LaBr₃:Ce detectors. Half-life was measured from time difference between 187- and 361-keV transitions. Comparison with systematics of energies of low-lying levels and B(E2) values in neighboring nuclei.

¹⁹⁰Os Levels

E(level) [†]	\mathbf{J}^{π}	T _{1/2}	Comments
0	0^{+}		
186.7	2^{+}	375 ps 20	$T_{1/2}$: measured by 2012MaZP (also reported in 2013Ma74) from time difference between 187
			depopulating γ and 361-371 doublet feeding transitions.
547.8	4+		
557.98	2^{+}		

 † From Ey data.

$\gamma(^{190}\text{Os})$

Eγ	E _i (level)	\mathbf{J}_i^{π}	E_f	\mathbf{J}_f^{π}	Mult.	α^{\dagger}	Comments
186.7	186.7	2+	0	0^{+}	E2	0.420	B(E2)(W.u.)=72 4 E_{γ} ,Mult.: from the Adopted Gammas, energy is rounded value.
361.1 371.26 557.97	547.8 557.98 557.98	4 ⁺ 2 ⁺ 2 ⁺	186.7 186.7 0	2+			

[†] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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Level Scheme

