

$^{190}\text{Os}(\text{p,t})$ **1976Sh15,1975Th04**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev, S. Juutinen, D. J. Hartley		NDS 150, 1 (2018)	1-Feb-2018

1976Sh15: E(p)=19.0 MeV. Enge split-pole spectrograph, FWHM=10 keV, angular distribution data from 10° to 60°. Absolute cross section uncertainty=10% to 15%. Others from the same group: **1975ShYU**, **1973Sh18**, **1973Oo01**.

1975Th04: E(p)=18 MeV. Enge split-pole spectrograph. Angular distribution data from 10° to 65°. Absolute cross section uncertainty=20%.

Other: **1985Mi06**, measured g.s. transition strength.

 ^{188}Os Levels

E(level) [†]	L [†]	$\sigma^{\ddagger}$	E(level) [†]	$\sigma^{\ddagger}$	E(level) [†]
0	0	2255	1880? [‡]	1.0 [@]	2605 <i>10</i>
154 5		325	1893? [‡]	1.3 [@]	2628 <i>10</i>
478 5		40	1938 [‡]	2.4 [@]	2743 <i>10</i>
637 5		67	1948 [‡]	2.6 [@]	2891 <i>10</i>
940 [‡]		1.5 [@]	1965? [‡]	1.0 [@]	2923 <i>10</i>
967 5		31	1972 5	1.8 [@]	2945 <i>10</i>
1087 5	0	128	2023 <i>10</i>	2.1 [@]	2968 <i>10</i>
1279 5	(4,2) ^{&}	17	2033 [‡]	2.2 [@]	3031 ^b <i>10</i>
1306 5	(2,4) ^{&}	20	2088 <i>10</i>		3272 <i>10</i>
1412 5	(3) ^{&}	57	2124 <i>10</i>		3337 <i>10</i>
1458? [‡]		1.5 [@]	2206 <i>10</i>		3362 <i>10</i>
1480 5	0	82	2228 <i>10</i>		3434 <i>10</i>
1574 5		14	2251 ^b <i>10</i>		3479 <i>10</i>
1622 5		33	2288 <i>10</i>		3567 <i>10</i>
1668 [‡]		2.9 [@]	2302 <i>10</i>		3600 <i>10</i>
1705 5	0	26	2333 <i>10</i>		3622 <i>10</i>
1732? [‡]		1.3 [@]	2377 <i>10</i>		3644 <i>10</i>
1747 [‡]		1.8 [@]	2432 <i>10</i>		3810 <i>10</i>
1765 5	0	20	2457 <i>10</i>		3837 <i>10</i>
1809 [‡]		3.0 [@]	2497 <i>10</i>		3900 <i>10</i>
1824 5	0 ^a	3.5	2540 <i>10</i>		3984 <i>10</i>
1855 [#] 5			2556 <i>10</i>		

[†] From **1976Sh15**, unless otherwise stated. **1975Th04** give levels up to 2033 keV. Uncertainty not given by **1976Sh15**, but estimated by the evaluators from data for other nuclei given by authors. Cross sections (summed 10°–60°) are given in $\mu\text{b/sr}$.

[‡] Reported only by **1975Th04**.

[#] Reported only by **1976Sh15**.

[@] Cross section at 25° given by **1975Th04** relative to that for g.s.=815 $\mu\text{b/sr}$.

[&] Proposed by **1976Sh15** by comparing angular distribution for this level with that of a level of known spin and parity.

^a From **1975Th04**.

^b Unresolved doublet.