

$^{193}\text{Ir}(\gamma,\gamma):\text{Mossbauer}$

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 143, 1 (2017)	31-Mar-2017

 ^{193}Ir Levels

Time-reversal invariance: [1980Da12](#), [1970Ze04](#), [1968At01](#).

Isomer shifts: [1985De51](#), [1985Be03](#), [1973Wa05](#) (also [1970Wa18](#), [1967Wa12](#)), [1967At03](#).

Quadrupole interaction: [1974Sa08](#), [1967Wa12](#).

Hyperfine fields: [1975Ka16](#), [1969Pe05](#), [1967He11](#).

Conversion electron Mossbauer spectra: [1991Sa33](#).

E(level) [†]	J^π [†]	$T_{1/2}$ [†]	Comments
0.0	3/2 ⁺	stable	
73.041 5	1/2 ⁺	6.09 ns 15	$g(73 \text{ level})/g(\text{g.s.})=9.1 \ 3$ (1967At03), +8.875 18 (1967Wa20). J^π : from shape of absorption spectrum (magnetic splitting of 73.0 level) (1967At03); π from Adopted Levels.
138.941 5	5/2 ⁺	78 ps 4	$T_{1/2}$: adopted value includes 79.7 ps 21 from measured Γ (1969St04).

[†] From Adopted Levels.

 $\gamma(^{193}\text{Ir})$

E_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [†]	δ	Comments
73.040 12	73.041	1/2 ⁺	0.0	3/2 ⁺	M1+E2	-0.558 5	δ : from relative intensities of emission lines from completely magnetized ^{193}Os source (1967Wa20) (sign convention not stated by authors, but sign apparently consistent with later data (1984Gh01)); $\delta=0.61 \ 5$ (1967At03). Other: 1968At01 .
138.92 4	138.941	5/2 ⁺	0.0	3/2 ⁺	M1+E2	-0.329 12	δ : from Adopted Gammas.

[†] From adopted gammas.

$^{193}\text{Ir}(\gamma,\gamma):\text{Mossbauer}$ Level Scheme