

Muonic atom 1984Ta04,1977Li20

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

Measured difference between E_γ in an ordinary atom and a muonic atom. Deduced muonic isomer shift. ([1974Ba77](#)).

Observed hyperfine splitting of the $5/2^+$ to $3/2^+$ transition (139γ) in muonic atom ([1977Li20](#)).

Discussion of precision measurements of nuclear quadrupole moments by muonic X-rays ([1985St28](#)).

 ^{193}Ir Levels

$E(\text{level})^\dagger$	J^π	Comments
0.0	$3/2^+$	
138.941	$5/2^+$	$Q=0.751$ 9 from hyperfine splitting of muonic x-rays (1984Ta04).

[†] From Adopted Levels.

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

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
138.9	138.941	$5/2^+$	0.0	$3/2^+$	E_γ : rounded-off value from Adopted Gammas. $E_\gamma(\text{ordinary atom}) - E_\gamma(\text{muonic atom}) = -0.27$ 5 (1974Ba77); γ observed by 1977Li20 .

Muonic atom 1984Ta04,1977Li20Level Scheme