^{188}Os(γ,γ):Mossbauer 1972Wa24,1970Wa06,1965Ch14

History

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

1972Wa24, 1970Wa06 (both from the same laboratory): measured Q and g factor from hyperfine splitting of 155γ using Mossbauer transmission method. Source and absorber cooled to 4.2° K.
1965Ch14: used precession of Mossbauer angular distribution with an external magnetic field to determine magnetic moment of 155 level.
Others: 1964Mo16: first observation of Mossbauer effect in ^{188}Os.
Additional information 1.

^{188}Os Levels

E(level)	J^{π} †	Comments
0	0^+	
155	2^+	g=0.305 15 (1970Wa06) and 0.310 27 (1965Ch14). Q=−1.36 *9* (1972Wa24) and −1.81 *24* (1970Wa06). Q(^{188}Os,2^+)/Q(^{186}Os,2^+)=0.91 *2* (1972Wa24).

† From Adopted Levels.

γ(^{188}Os)

E_γ	E_i(level)	J_i^π	E_f	J_f^π
155	155	2^+	0	0^+

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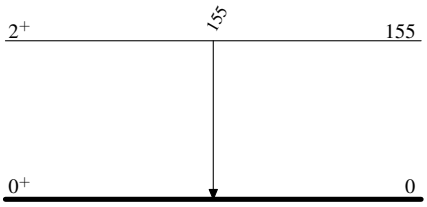
Level Scheme



$^{188}_{76}Os_{112}$