Muonic atom 1981Ho22

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 113, 1871 (2012)	15-Jun-2012

Others: 1967De21, 1968Ba36, 1971Ba11, 1972Ko40, 1972Li33, 1973BaUA, 1973Ik03, 1973Me08 (calculation only), 1974Ba77, 1974En08, 1977Ho23, 1977Wa12.

1981Ho22: osmium targets enriched to 99.06% in ^{192}Os; measured muonic x-ray spectrum (Ge(Li)); determined Barrett moment, Barrett radii, isotope shift, isomer shift, B(E2), and quadrupole moment values. See ^{192}Os Adopted Levels for Q(205.8 level).

^{192}Os Levels

E(level)†	Jπ‡	Comments
0.0	0^+	
205.805 *25*	2^+	B(E2)=2.10 *2* (1981Ho22). Q is negative (1977Wa12). Q=−0.96 *3* (1981Ho22).
489.07 *3*	2^+	B(E2)(2+(206) to 2+(489))=0.37 *5* (1981Ho22); presumed to supersede 0.33 *5* in 1977Ho23.
690.37	3^+	

† From least-squares fit to Eγ.
‡ Adopted values.

γ(^{192}Os)

E_γ†	I_γ‡	E_i(level)	J_i^π	E_f	J_f^π	Comments
205.805 *25*	18.6	205.805	2^+	0.0	0^+	
283.26 *3*	1.5	489.07	2^+	205.805	2^+	
484.58	0.7	690.37	3^+	205.805	2^+	E_γ: adopted value (rounded).
489.07	1.6	489.07	2^+	0.0	0^+	E_γ: from Eγ(206)+Eγ(283) in 1974Ba77.

† From 1974Ba77, except as noted.
‡ Photon intensity per 100 stopped muons (1974Ba77). Uncertainty unstated by authors.

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Level Scheme

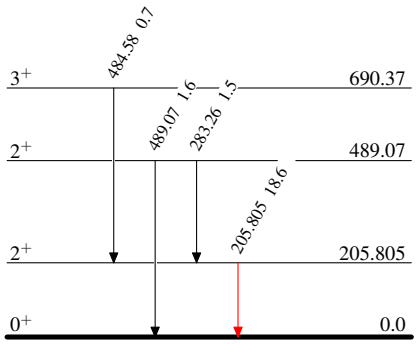
Intensities: Relative I_γ

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$



$^{192}_{76}Os_{116}$