^{189}Os(γ,γ):Mossbauer

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson, Balraj Singh	NDS 142, 1 (2017)	15-Apr-2017

1972Wa24, 1969Wa02: ^{189}Os(γ,γ), E=36, 69 keV; measured Mossbauer effect in OsO$_2$, OsP$_2$. ^{189}Os levels deduced g-ratio, γ-mixing ratio, $T_{1/2}$. Levels deduced quadrupole moment. See also, 1974Wa05, 1970Bo11.

1969Gr10: ^{189}Os(γ,γ), E=69.6, 95.3 keV; measured Mossbauer effect. ^{189}Os level $T_{1/2}$, μ, γ-mixing. Ge(Li), Si(Li) detectors.

1968Pe09: ^{189}Os(γ,γ), E=69.6 keV; measured Mossbauer effect. ^{189}Os level $T_{1/2}$, μ, γ-multipolarity.

^{189}Os Levels

E(level)	$T_{1/2}$	Comments
0.0		
36.2	0.50 ns 3	$T_{1/2}$: from 1969Wa02.
69.6	1.8 ns 2	$T_{1/2}$: from 1968Pe09. Other: >0.95 ns (1967Jh02).
95	0.20 ns 8	$T_{1/2}$: from 1969Gr10. The authors indicate that $T_{1/2}$=0.13 to 0.28 ns.

$\gamma(^{189}$Os$)$

E_γ	E_i(level)	E_f	Mult.	δ	Comments
36.2	36.2	0.0			
69.6	69.6	0.0	M1+E2	+0.685 25	Mult.,δ: from 1972Wa24.

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Level Scheme

$^{189}_{76}$Os$_{113}$