Coulomb excitation 1995An15,1966Gr20

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, [1] and Jun Chen[2]	NDS 169, 1 (2020)	15-Oct-2020

1995An15: (^{58}Ni,^{58}Ni′γ) E=160 MeV from the ANU 14UD Pelletron. Measured B(E2) and g factor by $\gamma(\theta$,H,t) in transient field technique.
1966Gr20: (^{16}O,^{16}O′) E=36 MeV at the Niels Bohr Institute. Enriched target (0.85% ^{190}Pt).

^{190}Pt Levels

E(level)	J^π	$T_{1/2}$	Comments
0	0^+		
294	2^+	62 ps *3*	g=0.285 *13* (1995An15) B(E2)↑=1.82 *9* (1995An15) g: g(^{190}Pt)/g(^{194}Pt,first 2^+)=0.96 *3* (1995An15). B(E2)↑: other: 1.75 *22* (1966Gr20 quoted 2.05 *25*, relative to 1.94 for first 2^+ state in ^{194}Pt. This value has been adjusted using adopted B(E2)=1.642 *22* for ^{194}Pt (2001Ra27)). J^π: from the Adopted Levels. $T_{1/2}$: from B(E2)↑.

$\gamma(^{190}Pt)$

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	$\alpha^\dagger$	Comments
295.8	294	2^+	0	0^+	E2	0.1027	α(K)=0.0633 *9*; α(L)=0.0298 *5*; α(M)=0.00748 *11* α(N)=0.00183 *3*; α(O)=0.000298 *5*; α(P)=6.36×10^{-6} *9* E_γ,Mult.: from the Adopted Gammas.

† Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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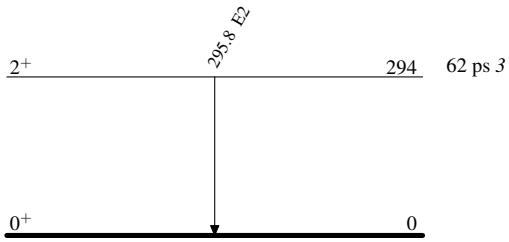
Level Scheme



$^{190}_{78}Pt_{112}$