^{165}Er ε decay (10.36 h) 1963Ry01,1963Zy01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen	NDS 194,460 (2024)	31-Oct-2022

Parent: ^{165}Er: E=0.0; $J^{\pi}=5/2^{-}$; $T_{1/2}$=10.36 h *4*; Q(ε)=376.7 *10*; %ε decay=100
^{165}Er-J^{π},$T_{1/2}$: From ^{165}Er Adopted Levels.
^{165}Er-Q(ε): From 2021Wa16.
1963Ry01, 1963Zy01: measured internal-bremsstrahlung spectra, γ.
Other measurements:
γ: 1963Ra15, 1961Gr25, 1961Ab04, 1957Go78, 1950Bu85.
K x ray, L x ray: 1958Gr03, 1952Ku15.
Auger electrons: 1978GrZS.
K x ray-K x ray coin: 1982Va20, 1972Na09.
(K x ray)(L x ray)(t), (K x ray)(L x ray) coin, Coster-Kronig transitions probability: 1980Gn01.
Additional information 1.
No 94.7γ (I(γ+ce)<0.0002%), no 361γ (I(γ+ce)<0.00002%) (1963Ry01), no 115γ or 135γ (1963Ry01).
No γ: 1963Ra15, 1961Gr25, 1961Ab04, <0.01% (1958An39), 1957Go78.

^{165}Ho Levels

E(level)	J^{π}	$T_{1/2}$	Comments
0.0	$7/2^{-}$	stable	J^{π}: from the Adopted Levels.

ε radiations

E(decay)	E(level)	Iε[‡]	Log *ft*[†]	Comments
(376.7 *17*)	0.0	100	4.715 *5*	εK=0.7989 *4*; εL=0.15165 *20*; εM+=0.04946 *16* E(decay): measured value=371 *6* from weighted average of E=371 *6* (1963Zy01), and 370 *10* (1963Ry01); energies deduced from the shape of internal bremsstrahlung spectrum. Iβ^{+}: no β^{+} (1950Bu85).

[†] Additional information 2.
[‡] Absolute intensity per 100 decays.