^{88}Br β^-n decay 1980Ho03

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson and W. D. Kulp(a)	NDS 129, 1 (2015)	27-Jul-2015

Parent: ^{88}Br: E=0.0; J^π=(1,2$^-$); $T_{1/2}$=16.5 s *1*; Q(β^-n)=1922 *3*; %β^-n decay=6.4 *5*

^{88}Br-%β^-n decay: The %β-n is 6.4 *5* from the ENDF/B evaluation (1984Ma39). Input values were 6.1 *4* (1977Re05, updated by 1980ReZQ), 6.6 *4* (1980Lu04), 6.3 *8* (1972Sc48, updated in ENDF evaluation), 5.2 *8* (1971De35, updated in ENDF evaluation), 6.0 *13* (1964Ar24). Others: 6.5 *7* (1978Kr15) and 6.8 *3* (1980Ho03).

^{88}Br-%β^-n decay: $I_\gamma(775)/I_n$ = 9.5 *5* (1980Ho03) and 9.4 *6* (1981Ho07).

The results of 1980Ho03 were given in 1981Ho07, by the same author, in abbreviated form, but some values differ.

Neutron spectrum measured by 1977Sh01 and 1974Ru08.

^{87}Kr Levels

E(level)[†]	J^π[‡]
0.0	5/2$^+$
532.12 *5*	1/2$^+$

[†] No other γ's have been reported so branching to higher is less than 0.1%.
[‡] From ^{87}Kr Adopted Levels.

$\gamma(^{87}Kr)$

E_γ	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π
532.12 *5*	4.1 *3*	532.12	1/2$^+$	0.0	5/2$^+$

[†] For absolute intensity per 100 decays, multiply by 0.064 *5*.

Delayed Neutrons (^{87}Kr)

E(n)	E(^{87}Kr)	I(n)[†]
1.39×10^3 *13*	532.12	4.1 *3*
1.92×10^3 *13*	0.0	95.9 *3*

[†] For absolute intensity per 100 decays, multiply by 0.064 *5*.

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Decay Scheme

Intensities: I_γ per 100 parent decays