^{89}Br β^-n decay 1981Ho07,1981Ho17

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan and A. A. Sonzogni	NDS 115, 135 (2014)	1-Nov-2013

Parent: ^{89}Br: E=0.0; J^π=(3/2$^-$,5/2$^-$); $T_{1/2}$=4.357 s *22*; Q(β^-n)=3346 *4*; %β^-n decay=13.8 *4*

1981Ho07,1981Ho17: ^{89}Br activity produced in ^{235}U(n,F) and separated with the OSIRIS on-line mass separator. Measured Eγ, Iγ, $\gamma\gamma$ using two coaxial Ge(Li) detectors, $\beta\gamma$ using a SiLi detector, and I(n) using 30 parallel coupled ^{3}He detectors imbedded in paraffin.

1997Gr20: Delayed neutron spectrum measured in the range 30-1200 keV and relative intensities reported in different energy bins.

^{88}Kr Levels

E(level)[†]	J^π[†]
0	0^+
775.32	2^+
1577.42	2^+
1643.76?	4^+

[†] From the Adopted Levels.

$\gamma(^{88}Kr)$

E_γ	I_γ[‡#]	E_i(level)	J_i^π	E_f	J_f^π
775.30[†] *4*	86 *3*	775.32	2^+	0	0^+
802.32[†] *6*	3.1 *2*	1577.42	2^+	775.32	2^+
(868.6)	<3	1643.76?	4^+	775.32	2^+
1577.4	0.8	1577.42	2^+	0	0^+

[†] From 1981Ho17.
[‡] Normalized to Iγ(1098γ in ^{89}Kr)=100.
[#] For absolute intensity per 100 decays, multiply by 0.159 *5*.

Delayed Neutrons (^{88}Kr)

E(^{88}Kr)	I(n)[†]
0	60 *4*
775.32	38 *4*
1577.42	1.8 *4*
1643.76?	<1.5

[†] For absolute intensity per 100 decays, multiply by 0.138 *4*.

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Decay Scheme

Intensities: I_γ per 100 parent decays