Adopted Levels, Gammas

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola, A. A. Sonzogni	ENSDF	31-Mar-2011

Q(β^-)=7215 *13*; S(n)=5283 *13*; S(p)=1.57×10^4 *5*; Q(α)=−8.0×10^3 *4* 2012Wa38
Note: Current evaluation has used the following Q record 7214 13 *5283* 12 *15784* syst −7846 syst 2011AuZZ.
ΔS(p)=196, ΔQ(α)=401, S(2n)=8721 *12*, S(2p)=29202 syst 596, Q(β^-n)=3201 *14* (2011AuZZ).
Only the Q values were adopted from 2009AuZZ, no other changes have been made since the 2006 Nuclear Data Sheets.
%β^-n and $T_{1/2}$ from 2003Be05: β measured with plastic scintillators, n moderated and measured with proportional counters, β-n time correlations measured on the μs scale.
2010Na13, 2006De36: high-accuracy mass measurements.
α: Additional information 1.

^{94}Kr Levels

Cross Reference (XREF) Flags

A ^{248}Cm SF decay

E(level)	J$^\pi$	$T_{1/2}$	XREF	Comments
0.0	0$^+$	212 ms *5*	A	%β^-=100; %β^-n=1.11 *7* %β^-n from 2003Be05. Other: 5.7% *22* (1975As04), measured β and n activities, deduced %β^-n. $T_{1/2}$: from 2003Be05. Others: 0.20 s *1* (1972Am01), 0.22 s *2* (1975As04), 0.33 s *10* (1996Me09). Δ<r^2>(94,86)=0.99 fm^2 *18* (1995Ke04). <r^2>$^{1/2}$=4.301 fm *13* (2004An14).
665.5	2$^+$		A	J$^\pi$: E2 γ to 0$^+$ g.s.
1518.7	(4)$^+$		A	J$^\pi$: E2 γ to 2$^+$, member of g.s. cascade.
2520.0			A	

γ(^{94}Kr)

E$_i$(level)	J$_i^\pi$	E$_\gamma$	I$_\gamma$	E$_f$	J$_f^\pi$	Mult.	α	Comments
665.5	2$^+$	665.5	100	0.0	0$^+$	E2	0.001393 *20*	α(K)=0.001235 *18*; α(L)=0.0001343 *19*; α(M)=2.17×10^{-5} *3*; α(N+..)=2.18×10^{-6}
1518.7	(4)$^+$	853.2	100	665.5	2$^+$	E2	0.000727 *11*	α(K)=0.000645 *9*; α(L)=6.94×10^{-5} *10*; α(M)=1.122×10^{-5} *16*; α(N+..)=1.128×10^{-6}
2520.0		1001.3	100	1518.7	(4)$^+$			

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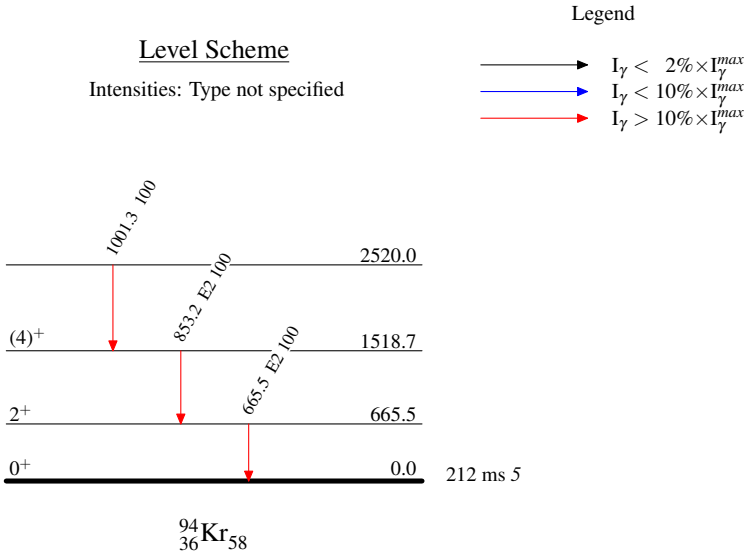
Level Scheme

Intensities: Type not specified



$^{94}_{36}Kr_{58}$