

$^{94}\text{Kr}$   $\beta^-$ -n decay    [2003Be05](#),[1975As04](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 112, 1163 (2011)	15-Dec-2010

Parent:  $^{94}\text{Kr}$ :  $E=0.0$ ;  $J^\pi=0^+$ ;  $T_{1/2}=212$  ms 5;  $Q(\beta^-n)=3202$  14;  $\% \beta^-n$  decay=1.11 7

$^{94}\text{Kr}$ - $\% \beta^-n$  decay:  $\% \beta^-n=1.11$  7 from [2003Be05](#). other  $\% \beta^-n$ : 5.7 22 ([1975As04](#); value recommended in [1993Ru01](#)).

[2003Be05](#):  $^{94}\text{Kr}$  from pulsed 1 or 1.4 GeV proton bombardment of 2000°C uranium carbide/graphite target;  $^{94}\text{Kr}$  stopped in Al or aluminized mylar tape at center of  $4\pi$  neutron long counter (12 parallel-coupled  $^3\text{He}$  proportional counters in paraffin moderator) with plastic  $\beta$  detector or transported to a  $4\pi$   $\beta$  detector; measured  $\beta$ -N time correlations ( $\mu\text{s}$  scale),  $T_{1/2}$  and  $\% \beta^-n$  for  $^{94}\text{Kr}$ .

[1975As04](#):  $^{94}\text{Kr}$  from  $^{235}\text{U}(n,f)$   $E$ =thermal, Lohengrin mass separator; measured  $\beta^-$  and n activities simultaneously; deduced  $\% \beta^-n=5.7$  22.

Parent  $T_{1/2}$  from [2003Be05](#). other data: 0.20 s 1 ([1972Am01](#)), 0.22 s 2 ([1975As04](#)), 0.33 s 10 ([1996Me09](#)).

 $^{93}\text{Rb}$  Levels

E(level)	$J^\pi$	Comments
0	$5/2^-$	$J^\pi$ : from Adopted Levels.