

$^{95}\text{Rb}$   $\beta^-$  n decay **1987GaZF**

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

Parent:  $^{95}\text{Rb}$ :  $E=0.0$ ;  $J^\pi=5/2^-$ ;  $T_{1/2}=377.5$  ms 8;  $Q(\beta^-n)=4934$  22;  $\% \beta^-n$  decay=8.73 20

**1987GaZF**: measured  $n\gamma$ -coincidences; moderated  $^3\text{He}$ , Ge(HP). Supersedes earlier works by the same group, **1982Kr11** and **1983Kr11**.

**1981Ho07**: measured  $\gamma$ 's (Ge(Li)) and neutrons (shielded  $^3\text{He}$ ).

**1982Kr11** and **1982Kr07**: measured  $\gamma$ 's and  $\gamma\gamma$ -coin and  $\beta\gamma$ -coin (Ge(Li)) and  $n\gamma$ -coin ( $^3\text{He}$ , Ge(Li)).

**1983Kr11** measured n's and  $\gamma n$ -coin from  $E(n)=10$  keV to 3 MeV ( $^3\text{He}$ , Ge(Li)), FWHM=12 keV for thermal n's and 20 keV for  $E(n)=1$  MeV and n's from  $E(n)=180$  keV to 3 MeV (tof, scin, Ge(Li)), FWHM=3 keV for  $E(n)=200$  keV and 35 keV for  $E(n)=1$  MeV and n's from  $E(n)=5$  to 150 keV (Li-glass).

**1985Gr15**: measured neutrons; gas-filled proportional counters.

**1991LeZT**: measured neutrons;  $^6\text{Li}$ -glass, tof ( $E(n)<100$  keV) and scin, tof ( $100$  keV $<E(n)<325$  keV).

All data are from **1987GaZF**.

 $^{94}\text{Sr}$  Levels

E(level)	$J^\pi$ †	$T_{1/2}$ †	E(level)	$J^\pi$ †	E(level)	$J^\pi$ †
0.0	$0^+$	75.3 s 2	2604.0	$(4^-)$	2739.9	$(4^-)$
836.9	$2^+$		2613.9	$(2,3,4)$	2930.1	$(2,3,4)$
1926.9	$3^{(-)}$		2649.8	$4^{(+)}$	3438.9	$(2,3,4)$
2146.1	$4^+$		2703.4	$(2,3,4)$		
2415.0	$(3^-)$		2710.9	$(2,3,4)$		

† From Adopted Levels.

 $\gamma(^{94}\text{Sr})$ 

$I_\gamma$  normalization: From  $\Sigma I_\gamma(\text{g.s.})=8.73\%$  20.

$E_\gamma$	$I_\gamma$ †	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	$E_\gamma$	$I_\gamma$ †	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
457.9	6.7 10	2604.0	$(4^-)$	2146.1	$4^+$	1578.1	6.9 10	2415.0	$(3^-)$	836.9	$2^+$
813.0	3.1 5	2739.9	$(4^-)$	1926.9	$3^{(-)}$	1777.0	4.5 5	2613.9	$(2,3,4)$	836.9	$2^+$
836.9	100	836.9	$2^+$	0.0	$0^+$	1812.9	3.6 5	2649.8	$4^{(+)}$	836.9	$2^+$
1090.0	3.6 6	1926.9	$3^{(-)}$	836.9	$2^+$	1866.5	4.5 5	2703.4	$(2,3,4)$	836.9	$2^+$
1292.8	3.5 5	3438.9	$(2,3,4)$	2146.1	$4^+$	1874.0	2.8 5	2710.9	$(2,3,4)$	836.9	$2^+$
1309.2	9.8 10	2146.1	$4^+$	836.9	$2^+$	2093.2	3.3 5	2930.1	$(2,3,4)$	836.9	$2^+$

† For absolute intensity per 100 decays, multiply by 0.0873 20.

Delayed Neutrons ( $^{94}\text{Sr}$ )

For neutron spectra see **1982Kr11**, **1985Gr15**, **1991LeZT**.

$E(^{94}\text{Sr})$	$I(n)$ †	$E(^{94}\text{Sr})$	$I(n)$ †	$E(^{94}\text{Sr})$	$I(n)$ †
				0.0	67.6 20
				836.9	20.9 10
				1926.9	$\leq 0.5$
				2146.1	$\leq 0.5$
				2415.0	2.0 5
				2604.0	1.9 5

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	2613.9	1.3 5
	2649.8	1.0 5
	2703.4	1.3 5
	2710.9	0.8 5
	2739.9	0.9 5
	2930.1	0.9 5
	3438.9	1.0 5

† For absolute intensity per 100 decays, multiply by 0.0873 20.

$^{95}\text{Rb} \beta^- n$  decay 1987GaZF

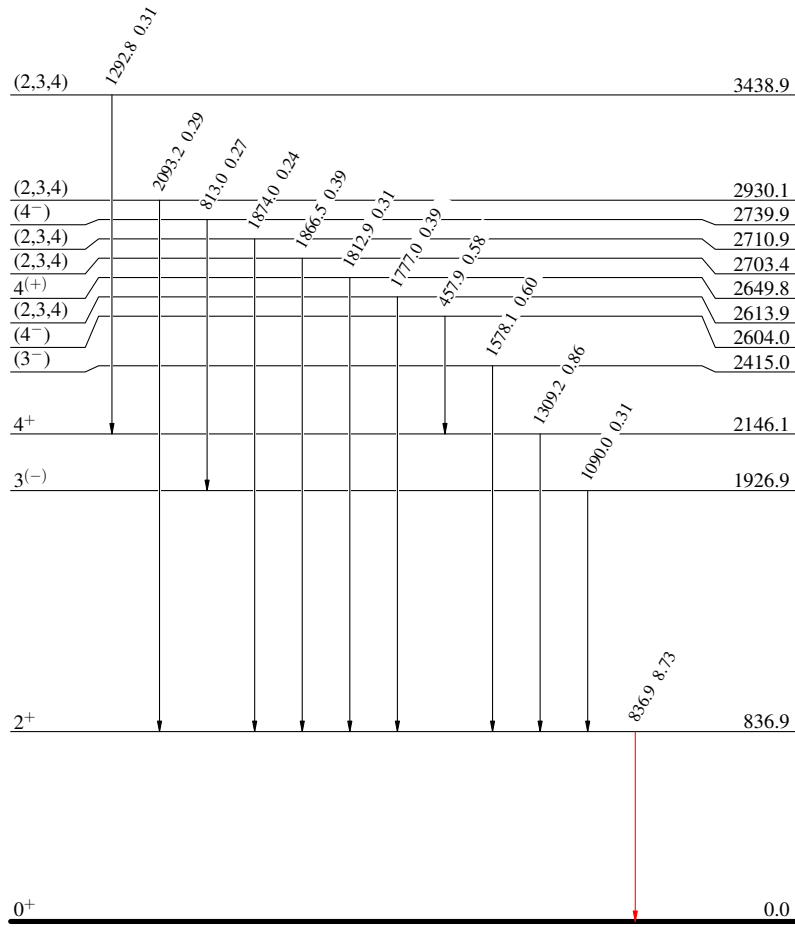
Decay Scheme

Intensities:  $I_{(\gamma+ce)}$  per 100 parent decays

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$

$^{95}_{37}\text{Rb}_{58}$   $5/2^-$  0.0 377.5 ms 8  
 $Q=4934.22$   
 $\% \beta^- n = 8.73$



$^{94}_{38}\text{Sr}_{56}$

75.3 s 2