

$^{94}\text{Nb} \beta^-$  decay ( $2.03 \times 10^4$  y)    1971He20, 1971Ea01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni		NDS 107, 2423 (2006)	1-Jan-2006

Parent:  $^{94}\text{Nb}$ : E=0.0;  $J^\pi=6^+$ ;  $T_{1/2}=2.03 \times 10^4$  y 16;  $Q(\beta^-)=2045.2$  20; % $\beta^-$  decay=100.0

1971He20: Ge(Li), FWHM $\leq$ 1 keV at 100 keV and  $\leq$ 2 keV at 1 MeV. Precision measurement of  $E\gamma$ .

1971Ea01: Ge(Li), FWHM=2.0 keV at 1.33 MeV. Precision measurement of  $E\gamma$  and  $I\gamma$ .

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

E(level)	$J^\pi$ <sup>†</sup>
0	$0^+$
871.095 18	$2^+$
1573.72 3	$4^+$

<sup>†</sup> From Adopted Levels.

 $\beta^-$  radiations

Measurements of  $\beta$  decay observables: shape factor: 1968Ho10.  $\beta\gamma(\theta)$ : 1968Ho24.

E(decay)	E(level)	$I\beta^-$ <sup>†</sup>	Log ft		Comments
(471.5 20)	1573.72	100	11.95 7	av E $\beta$ =145.79	

<sup>†</sup> Absolute intensity per 100 decays.

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

$E_\gamma$ <sup>‡</sup>	E <sub>i</sub> (level)	$J_i^\pi$	E <sub>f</sub>	$J_f^\pi$	Mult. <sup>†</sup>	$\alpha$ <sup>@</sup>	$I_{(\gamma+ce)}$ <sup>#</sup>	Comments
702.65 6	1573.72	$4^+$	871.095	$2^+$	E2	0.00186	100	$\alpha=0.00186$ ; $\alpha(K)=0.00161$ 5; $\alpha(L)=0.00019$ 1 $E_\gamma$ : other: 702.630 30 (1971Ea01). Mult.: E2 from $\gamma\gamma(\theta)$ and polarization correlation data (1967Ku03).
871.091 18	871.095	$2^+$	0	$0^+$	E2	0.00108	100	$\alpha=0.00108$ ; $\alpha(K)=0.00094$ 3; $\alpha(L)=0.00011$ $E_\gamma$ : other: 871.104 35 (1971Ea01).

<sup>†</sup> From adopted gammas.

<sup>‡</sup> From 1971He20.

<sup>#</sup> Absolute intensity per 100 decays.

<sup>@</sup> Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on  $\gamma$ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

$^{94}\text{Nb} \beta^- \text{ decay (2.03} \times 10^4 \text{ y) }$     1971He20,1971Ea01Decay Scheme