

^{98}Zr β^- decay (30.7 s) [1976He10](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen, Balraj Singh		NDS 164, 1 (2020)	15-Feb-2020

Parent: ^{98}Zr : $E=0.0$; $J^\pi=0^+$; $T_{1/2}=30.7$ s 4; $Q(\beta^-)=2238$ 10; $\% \beta^-$ decay=100.0

^{98}Zr - $T_{1/2}$: From ^{98}Zr Adopted Levels, taken from [1976He10](#).

^{98}Zr - $Q(\beta^-)$: From [2017Wa10](#).

[1976He10](#): source of ^{98}Zr was from the fission products produced by bombarding enriched ^{98}Mo metal powder with 14.7 MeV neutron from the T-D reaction at the Cockcroft-Walton accelerator facility. Measured β , $T_{1/2}$ with a Si(Li) detector. No γ rays are reported. [1976He10](#) report data primarily on ^{98}Nb decay.

Others: [1987Ma58](#), [1975Si23](#) (^{98}Zr produced from mass separation of fission fragments), [1967Hu08](#) and [1960Or02](#) (^{98}Zr production and $T_{1/2}$).

 ^{98}Nb Levels

E(level)	J^π	Comments
0	1^+	J^π : from Adopted Levels.

 β^- radiations

E(decay)	E(level)	$I\beta^-^\dagger$	Log ft	Comments
(2238 10)	0	100	4.154 10	av $E\beta=905.8$ 47 E(decay): measured 2.3 MeV 2 (1976He10), 2.1 MeV 2 (1967Hu08).

† Absolute intensity per 100 decays.