^{165}W $\varepsilon+\beta^+$ decay (5.1 s)

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen	NDS 194,460 (2024)	31-Oct-2022

Parent: ^{165}W: E=0.0; J^π=(5/2$^-$); $T_{1/2}$=5.1 s *5*; Q(ε)=6987 *29*; %ε+%β^+ decay>99.8

^{165}W-J^π,$T_{1/2}$: From ^{165}W Adopted Levels. Adopted $T_{1/2}$ is taken from 1975To05.

^{165}W-Q(ε): From 2021Wa16.

^{165}W-%ε+%β^+ decay: From adopted %Iα<0.2 deduced based on requirement HF>1 (2006Ja09). Other: %I($\varepsilon+\beta^+$)>98.5 from %Iα<1.5% reported in 1979Ho10 based on measured $T_{1/2}$>300 s for α decay branch and $T_{1/2}$=5.1 s *5* from 1975To05.

1996Sc50: ^{165}W produced in ^{144}Sm,^{147}Sm(^{24}Mg,xn) at 112 MeV, but ^{165}W could not be identified due to short half-life, only the daughter isotope ^{165}Ta was absorbed in the cation-exchange resin.

1975To05: measured $T_{1/2}$ and α decay of ^{165}W.

No decay scheme information is available.