
 ^{164}Ta α decay: not observed

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	N. Nica	NDS 176, 1 (2021)	1-May-2021

Parent: ^{164}Ta : $E=0.0$; $J^\pi=(3^+)$; $T_{1/2}=14.2$ s 3; $Q(\alpha)=4560$ 60; % α decay=?

[Additional information 1.](#)

[1983Sc18](#) report a weak (0.016% 5) 4625 15 α transition, which they associate with the α decay of ^{164}Ta . However, [1987ScZH](#) and [1988MeZY](#) assign this transition to the decay of ^{163}Ta , which has a $T_{1/2}$ value (10.5 s 6, according to [1987ScZH](#)) that is close to that of ^{164}Ta (13.6 s 2, according to [1983Sc18](#)). For the purposes of this evaluation, we thus do not consider α decay of ^{164}Ta to have been established.