^{164}Os α decay

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

Parent: ^{164}Os: E=0.0; $J^{\pi}=0^{+}$; $T_{1/2}$=21 ms *1*; Q(α)=6479 *5*; %α decay=96 *5*
^{164}Os-%α decay: from 2008Bi15.
Additional information 1.
Data set based on the evaluation by 2021Si16.
$T_{1/2}$(^{164}Os)=21 ms *1* (1996Pa01) is adopted here. Others: 41 ms *20* (1981Ho10); and 27 ms *4* (1996Bi07).
Q(α)(^{164}Os) is from the evaluation by 2021Wa16.

^{160}W Levels

E(level)	J^{π}
0.0	0^{+}

α radiations

Eα	E(level)	Iα[‡]	HF[†]	Comments
6321 *7*	0.0	100	1.000	Eα: from 1996Pa01. Others: 6320 *20* (1981Ho10); and 6315 *10* (1996Bi07). Iα: only one α group was observed.

[†] The nuclear radius parameter r_0(^{160}W)=1.5504 *44* is deduced by assuming HF=1.0 for the ground-state to ground-state alpha decay branch.
[‡] For absolute intensity per 100 decays, multiply by 0.96 *5*.