^{168}Os α decay (2.1 s) 1996Pa01,1995Hi02,1982En03

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen[#]	NDS 147, 1 (2018)	30-Nov-2017

Parent: ^{168}Os: E=0.0; $J^\pi=0^+$; $T_{1/2}$=2.1 s *1*; Q(α)=5815.6 *27*; %α decay=43 *4*

^{168}Os-$T_{1/2}$: From ^{168}Os Adopted Levels (2010Ba27).

^{168}Os-Q(α): From 2017Wa10.

^{168}Os-%α decay: From %α=43 *4* (from ^{168}Os Adopted Levels, 2010Ba27) based on measured values of 49% 3 (1982En03) and 40% 3 (1996Pa01).

^{164}W Levels

E(level)	J^π
0.0	0^+

α radiations

Eα	E(level)	Iα[‡]	HF[†]	Comments
5676 *4*	0.0	97 *3*	1.0	Eα: recommended by 1991Ry01. Eα=5674 *8* (1995Hi02) does not change the recommended Eα. Other Eα=5662 *8* (1984Sc06), 5680 *3* (1982De11, earlier value from this group was 5660 *10* in 1978Ca11 and 1977Ca23), 5660 *10* (1978Sc26). Iα: only one α group was observed. Intensity of an unobserved 5383α to 2^+ state at 332 is estimated to be less than 6% of α decay by requiring its hindrance factor to be greater than 1.0. Thus Iα(5676α)=97 *3* per 100 α decays is assigned and used in computation of the r_0 parameter.

[†] r_0(164W)=1.563 *11* is deduced from Hf(5676α)=1.0.

[‡] For absolute intensity per 100 decays, multiply by 0.43 *4*.