## $^{162}$Os $\alpha$ decay (2.1 ms) 1996Bi07,2000Ma95,1989Ho12

| Type | Author | History Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | N. Nica | ENSDF | 31-Dec-2017 |

Parent: $^{162}$Os: E=0.0; $J^\pi=0^+$; $T_{1/2}$=2.1 ms *1*; Q($\alpha$)=6767 *3*; %$\alpha$ decay=100.0

$^{162}$Os-$T_{1/2}$: From $^{162}$Os Adopted Levels, Gammas dataset (2007Re16), weighted average of 1.9 ms *2* (2000Ma95, $\alpha$(t)) and 2.1 ms *1* (2004Jo12, $\alpha$(t)). Others: 1.5 ms +*7*−*5*, (1996Bi07, $\alpha$(t)); and 1.9 ms *7*, (1989Ho12, $\alpha$(t)).

$^{162}$Os-Q($\alpha$): From 2017Wa10.

1989Ho12: produced by $^{106}$Cd($^{58}$Ni,2n).

1996Bi07: produced by $^{92}$Mo($^{78}$Kr,x) at 357 and 384 MeV and products separated in fragment mass analyzer and counted in silicon strip detector.

2000Ma95: produced by $^{106}$Cd($^{58}$Ni,x) at 270 MeV and products separated in fragment mass analyzer and counted in silicon strip detector.

### $^{158}$W Levels

| E(level) | $J^\pi$ | Comments |
|---|---|---|
| 0.0 | $0^+$ | %$\alpha$=100 |

### $\alpha$ radiations

| E$\alpha$ | E(level) | I$\alpha$[‡] | HF[†] | Comments |
|---|---|---|---|---|
| 6602 *4* | 0.0 | 100 | 1.0 | E$\alpha$: weighted average of 6611 *30* (1989Ho12), 6619 *10* (1996Bi07), and 6600 *3* (2000Ma95). I$\alpha$: only one $\alpha$ branch is reported. |

[†] $r_0(^{158}W)$=1.5597 *29* is calculated from HF(6602$\alpha$)=1.0.

[‡] Absolute intensity per 100 decays.