^{162}W α decay

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 141, 1 (2017)	1-Feb-2017

Parent: ^{162}W: E=0; $J^{\pi}=0^+$; $T_{1/2}$=1.19 s *12*; Q(α)=5677.3 *27*; %α decay=45.2 *6*

^{162}W-%α decay: from ^{162}Hf Adopted Levels and based on 0.46 *4* (1981Ho10), 0.49 *4* (1989Wo02), and 0.44 *2* (1996Pa01).

$T_{1/2}$: from ^{162}Hf Adopted Levels, Gammas dataset.

$Q_{\alpha}(^{162}W)$: from 2012Wa38.

Experimental methods:

1973Ea01: Produced by ^{144}Sm(^{24}Mg,6n); α's measured with Si detector.

1975To05: Produced by ^{156}Dy(^{16}O,10n); α's measured with Si detector.

1979Ho10, 1981Ho10, 1981HoZM: Produced by ^{58}Ni bombardment; α's measured with Si detector following velocity selector.

1982De11: Produced by ^{63}Cu bombardment.

1989Wo02: Produced by ^{110}Cd(^{58}Ni,x).

1996Pa01: Produced by ^{112}Sn(^{58}Ni,x) or other reactions and separated in recoil mass separator. α's measured in silicon strip detector with parent-daughter correlation.

Other: 2015Da03 observe (among others) the 5536α of ^{162}W to ^{158}Hf in α-γ coin measurements (Fig. 6a).

^{158}Hf Levels

E(level)	J^{π}
0	0^+

α radiations

Eα	E(level)	Iα[†]	Comments
5536 *3*	0	100	Eα: Weighted average of 5528 *10* (1975To05), 5538 *5* (1979Ho10), 5534 *4* (1982De11), and 5541 *5* (1996Pa01); other: 5530 (1973Ea01).

[†] For absolute intensity per 100 decays, multiply by 0.452 *6*.