$^{168} {\rm Re} \ \alpha$ decay (4.4 s) 1992Me10

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

Parent: ¹⁶⁸Re: E=0.0; $J^{\pi}=(7^+)$; $T_{1/2}=4.4$ s *1*; $Q(\alpha)=5063$ *13*; $\%\alpha$ decay ≈ 0.005 ¹⁶⁸Re- J^{π} , $T_{1/2}$: From ¹⁶⁸Re Adopted Levels (2010Ba27).

¹⁶⁸Re-Q(α): From 2017Wa10.

¹⁶⁸Re-%α decay: deduced from $I\alpha/I\gamma(199.3\gamma \text{ in }^{168}\text{W})$ and ε decay scheme for ¹⁶⁸Re (1992Me10). Sources from ¹⁴¹Pr(³²S,5n), E(³²S)≈178-190 MeV, helium-jet transport; monoisotopic targets; measured excitation functions, Eα, E γ , simultaneous I α , I γ , $\alpha\gamma$ coin, (α)(K x ray) coin.

Isomers in ¹⁶⁸Re proposed (1984Sc06) on the basis of two observed α groups have not been confirmed by 1992Me10.

¹⁶⁴Ta Levels

E(level)	J^{π}
0.0 111.8	(3+)

α radiations

Εα	E(level)	Comments	
4833 13 111.8 E α : α groups (assigned earlier to ¹⁶⁸ Re α decay) with very different ene 5140 by 1978Sc26; 5260 by 1978Ca11) have been reassigned by 1992 of W nuclides.		E α : α groups (assigned earlier to ¹⁶⁸ Re α decay) with very different energies (4894 and 5250 by 1984Sc06; 5140 by 1978Sc26; 5260 by 1978Ca11) have been reassigned by 1992Me10 to ¹⁶⁷ Re α decay and α decay of W nuclides.	

$\gamma(^{164}\text{Ta})$

Eγ	E_i (level)	\mathbf{E}_{f}	\mathbf{J}_{f}^{π}
111.8	111.8	0.0	(3+)

$\frac{168}{100}$ Re α decay (4.4 s) 1992Me10

Decay Scheme

