

^{175}Re ε decay **1984Sz07**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 102, 719 (2004)	1-Jun-2004

Parent: ^{175}Re : $E=0.0$; $J^\pi=(5/2^-)$; $T_{1/2}=5.89$ min 5; $Q(\varepsilon)=4340$ 40; $\% \varepsilon + \% \beta^+$ decay=100.0
1984Sz07: activity from ^{16}O on ^{165}Ho . Helium jet. Measured E_γ , I_γ . Detector:Ge(Li).

 ^{175}W Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	(1/2 ⁻)	35.2 min 6	J^π : From Adopted Levels. $T_{1/2}$: From time vs. ^{175}W decay curve using the 166.7 keV G.

 $\gamma(^{175}\text{W})$

I_γ normalization: From growth and decay of ^{175}W contained in a source with both ^{175}Re and ^{175}W activities, and normalized to an average value from the absolute intensities of 166.7 γ and 270.3 γ in ^{175}W ε decay.

E_γ	I_γ^\dagger	$E_i(\text{level})$	Comments
^x 184.5	4.8 12		E_γ : these gammas can be associated with the transitions (11/2 ⁻) to (7/2 ⁻) and (7/2 ⁻) to (5/2 ⁻) in the 1/2[521] band, observed in $^{163}\text{Dy}(^{16}\text{O},4n\gamma)$. The feeding of the (11/2 ⁻) level may imply an assignment of 9/2 for the ground state of ^{175}Re , originating from the Nilsson orbital 9/2[514].
^x 280.9	0.35 11		

[†] For absolute intensity per 100 decays, multiply by 1.00 9.

^x γ ray not placed in level scheme.