

Adopted Levels

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	V. S. Shirley	NDS 75,377 (1995)	1-Oct-1993

$Q(\beta^-)=2.60\times 10^3$  syst;  $S(n)=5.24\times 10^3$  syst;  $S(p)=9.5\times 10^3$  syst;  $Q(\alpha)=-5.\times 10^2$  syst    [2012Wa38](#)

Note: Current evaluation has used the following Q record 2600    SY5240    syst    [1993Au05](#),[1993Au07](#).

Identification: genetic relationship of 1.4-min activity from  $^{176}\text{Yb}(n,\alpha)$  to known radiations from  $^{173}\text{Tm}$ , cross bombardments (natural and enriched targets) ([1972Pu02](#)).

A 1.9-min activity, previously assigned to  $^{173}\text{Er}$  ([1960Wi10](#)), was reassigned to  $^{176}\text{Tm}$  ([1970Tu07](#)).

The properties of a 12-min activity, previously assigned to  $^{173}\text{Er}$  ([1968Ih01](#)), are very different from those attributed to  $^{173}\text{Er}$  by [1972Pu02](#). The 12-min activity probably includes contaminants, and remains unassigned.

 $^{173}\text{Er}$  Levels

<u>E(level)</u>	<u>J<math>\pi</math></u>	<u>T<math>_{1/2}</math></u>	<u>Comments</u>
0.0	(7/2 $^-$ )	1.4 min <i>I</i>	$\% \beta^- = 100$ J $\pi$ : 7/2[514] Nilsson orbital assigned. Structure for $^{173}\text{Er}$ is expected to be similar to that for $^{177}\text{Hf}$ and other N=105 isotones. T $_{1/2}$ : from <a href="#">1972Pu02</a> , <a href="#">1973DrZK</a> .