

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, Huo Junde		NDS 87,15 (1999)	1-Nov-1998

$Q(\beta^-) = -5.55 \times 10^3$  3;  $S(n) = 8.67 \times 10^3$  3;  $S(p) = 7.2 \times 10^2$  4;  $Q(\alpha) = 5624$  10 [2012Wa38](#)

Note: Current evaluation has used the following Q record \$ -5.6E3 syst 8.9E3 SY8E2 SY5624 10 [1995Au04](#).

Activity produced by  $^{169}\text{Tm}(^{16}\text{O},11\text{n})$ ,  $^{166}\text{Er}(^{19}\text{F},^{11}\text{N})$  ([1967Si02](#));  $^{141}\text{Pr}(^{36}\text{Ar},3\text{n})$ , E=234 MeV ([1992Sc16](#));  $^{144}\text{Sm}(^{32}\text{S},\text{pn})$ , E=210 MeV ([1992Bo21](#));  $^{144}\text{Sm}(^{32}\text{S},\text{pn})$ , E=153 MeV ([1994Ki01](#)). Activity was assigned to  $^{174}\text{Ir}$  on the basis of cross bombardments, excitation functions, and  $\gamma$ -ray coincidence with Os K-x rays ([1967Si02](#),[1992Sc16](#),[1992Bo21](#),[1994Ki01](#)).

 $^{174}\text{Ir}$  Levels

E(level)	$J^\pi$	$T_{1/2}$	Comments
0.0	(3 <sup>+</sup> )	7.9 s 6	$\% \varepsilon = 99.5$ 3; $\% \alpha = 0.5$ 3 $J^\pi$ : favored $\alpha$ decay to 224.7-keV level ( $J^\pi = (3^+)$ ) in $^{170}\text{Re}$ . $\varepsilon$ decay to $J^\pi = 2^+, 4^+$ levels in $^{174}\text{Os}$ ( <a href="#">1992Sc16</a> ). $T_{1/2}$ : weighted average of 9 s 2 ( <a href="#">1992Sc16</a> ) and 7.8 s 6 ( <a href="#">1992Bo21</a> ). $\% \alpha$ : From <a href="#">1992Sc16</a> .
193 11	(7 <sup>+</sup> )	4.9 s 3	$\% \varepsilon = 97.5$ 3; $\% \alpha = 2.5$ 3 $J^\pi$ : favored $\alpha$ decay to 210.3-keV level ( $J^\pi = (7^+)$ ) in $^{170}\text{Re}$ . $\varepsilon$ decay to $J^\pi = 6^+, 8^+$ levels in $^{174}\text{Os}$ ( <a href="#">1992Sc16</a> ). $T_{1/2}$ : weighted average of 4.9 s 3 ( <a href="#">1992Sc16</a> ) and 5.0 s 4 ( <a href="#">1992Bo21</a> ). $\% \alpha$ : From <a href="#">1992Sc16</a> .