

^{147}Tm p decay [1993To02,1993Se04](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov, A. Rodionov and G. Shulyak		NDS 136, 163 (2016)	14-Jul-2016

Parent: ^{147}Tm : $E=0.0$; $J^\pi=11/2^-$; $T_{1/2}=0.58\text{ s}$ 3; $Q(p)=1059\text{ 3}$; %p decay=15 5

Parent: ^{147}Tm : $E=68\text{ 6}$; $J^\pi=(1/2^+)$; $T_{1/2}=360\text{ }\mu\text{s}$ 40; $Q(p)=1059\text{ 3}$; %p decay=100.0

$^{147}\text{Tm}(0.0)$ - $Q(p)$: from [2012Wa38](#).

$^{147}\text{Tm}(0.0)$ -%p decay: from [1993To02](#).

$^{147}\text{Tm}(68)$ - $Q(p)$: from [2012WA38](#).

$^{147}\text{Tm}(68)$ -%p decay: from [1993To02](#).

[1995Ho26,1993Se04,1997Se03,1984HoZN,1983La27,1982KI03](#): $^{147}\text{Tm}(p)$ [from $^{92}\text{Mo}(^{58}\text{Ni},X)$, $E=260\text{ MeV}$]; measured $E\gamma$, $I\gamma$, $E(p)$, I_p , $p\beta^+$, $(\beta^+)(K\text{ X ray})$ coin, $T_{1/2}$. ^{146}Er ; deduced level. Daresbury recoil separator.

[1993To02,1988ToZW](#): $^{147}\text{Tm}(p)$ [from $^{92}\text{Mo}(^{58}\text{Ni},X)$, $E=261, 280\text{ MeV}$]; measured $E\gamma$, $I\gamma$, $E(p)$, I_p , $(\epsilon p)\gamma$, $(\epsilon p)(K\text{ X ray})$, $p\beta^+$ coin, $T_{1/2}$. ^{146}Er ; deduced level. OASIS on-line separator, ΔE - E telescope, Ge detectors.

 ^{146}Er Levels

<u>E(level)</u>	<u>J^π</u>	<u>$T_{1/2}$</u>	<u>Comments</u>
0.0	0^+	1.7 s 6	$T_{1/2}$: from observation of $(\text{Ho K X rays})(\beta^+)(t)$ (1993To05).

Protons (^{146}Er)

<u>E(p)</u>	<u>E(^{146}Er)</u>	<u>I(p)</u>	<u>Comments</u>
1051.0 24	0.0	100	$E(p)$: weighted average of 1055 6 (1982KI03), 1059 10 (1983La27), 1050 4 (1984HoZN), 1050 4 (1993Se04), 1045 10 (1993To02).
1113 3	0.0	100	$E(p)$: weighted average of 1117 6 (1984HoZN), 1110.8 39 (1993Se04).