

**<sup>161</sup>Re p decay (14.7 ms) 1997Ir01**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 176, 1 (2021)	1-May-2021

Parent: <sup>161</sup>Re: E=123.8 13; J<sup>π</sup>=11/2<sup>-</sup>; T<sub>1/2</sub>=14.7 ms 3; Q(p)=1197 5; %p decay=7.0 3

<sup>161</sup>Re-J<sup>π</sup>: L=5 p emission to 0<sup>+</sup> g.s. of <sup>160</sup>W. Member of a sequence of (presumably) favored α transitions headed by an 11/2<sup>-</sup> level in <sup>177</sup>Tl (1999Po09). Probable configuration=πh<sub>11/2</sub>.

<sup>161</sup>Re-T<sub>1/2</sub>: as adopted in 2011Re14 evaluation: from 2006La16. Others: 14 ms 2 (α(t), 1996Pa01); 16 ms 1 (α(t), 1997Ir01). Note that a weighted average of these three values yields essentially the same result as the value adopted here. Note also the following: 15.4 ms +17-14 (p(t), 1997Ir01); and 10 ms +15-5 (α(t), 1979Ho10).

<sup>161</sup>Re-%p decay: From 2006La16. Others: 4.8% 6 (1997Ir01), 5% 2 (1995PeZY).

**Additional information 1.**

Unless noted otherwise, the data are from 1997Ir01. They are also incorporated into the evaluation of proton-radioactivity data by 2002So02.

Source material produced in heavy-ion-induced fusion reactions, followed by separation in a recoil mass separator and analysis using a double-sided Si strip detector.

<sup>160</sup>W Levels

E(level)	J <sup>π</sup>	T <sub>1/2</sub>	Comments
0.0	0 <sup>+</sup>	91 ms 5	T <sub>1/2</sub> : from α(t) (1996Pa01). Other: 81 ms 15 (1981Ho10).

Protons (<sup>160</sup>W)

E(p)	E( <sup>160</sup> W)	I(p)	L	Comments
1315 7	0.0	100	5	E(p): from 1997Ir01. 1995PeZY (some of whose authors are also included in 1997Ir01 report)