

**<sup>161</sup>Re p decay (0.44 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=0.0; J<sup>π</sup>=1/2<sup>+</sup>; T<sub>1/2</sub>=0.44 ms I; Q(p)=1197 5; %p decay=100.0

<sup>161</sup>Re-J<sup>π</sup>: as adopted in [2011Re14](#) evaluation: from the decay characteristics of the p transition to the <sup>160</sup>W g.s. (J<sup>π</sup>=0<sup>+</sup>). Probable configuration=πs<sub>1/2</sub>.

<sup>161</sup>Re-J<sup>π</sup>: [Additional information 1](#).

<sup>161</sup>Re-T<sub>1/2</sub>: as adopted in [2011Re14](#) evaluation: from p(t) in <sup>106</sup>Cd(<sup>58</sup>Ni,p2nγ) ([2006La16](#)). Other: 0.37 ms 4 from [1997Ir01](#), p(t).

Note that a weighted average of the two values yields essentially the same result as that adopted here.

<sup>161</sup>Re-%p decay: as adopted in [2011Re14](#) evaluation: from [1997Ir01](#) and [2006La16](#); [2006La16](#) also gives %α<1.4.

[Additional information 2](#).

Source material produced in heavy-ion-induced fusion-evaporation reactions, followed by separation in a Fragment Mass Analyzer and analysis using a double-sided Si strip detector.

Data are also incorporated into the evaluation of proton-radioactivity data by [2002So02](#).

<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) ( <a href="#">1996Pa01</a> ). Other: 81 ms 15 ( <a href="#">1981Ho10</a> ).

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

E(p)	E( <sup>160</sup> W)	I(p)	L	Comments
1192 6	0.0	100	0	L: from comparison of the experimental and calculated T <sub>1/2</sub> values.