

$^{170}\text{Au}$  p decay (0.62 ms) 2002Ma61,2004Ke06

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 109, 2033 (2008)	15-Jun-2008

Parent:  $^{170}\text{Au}$ :  $E=282$  10;  $J^\pi=(9^+)$ ;  $T_{1/2}=0.62$  ms +5-4;  $Q(p)=1474$  15;  $\%p$  decay=58 5

$^{170}\text{Au}$ - $\%p$  decay: From table III of 2004Ke06 (consistent with  $\%a$  In table IV and  $\%p$  In fig. 6); given As 0.59 6 In text. Other  $\%p$ : 75 15 (misprinted As 0.75 15) from 2002Ma61; from simultaneous observation of 1735-keV proton and 7056-keV  $\alpha$ , but that  $E\alpha$  differs significantly from  $E\alpha$  reported In 2004Ke06.

$^{170}\text{Au}$  parent:  $T_{1/2}=0.62$  ms +5-4,  $E=282$  10,  $\%p=58$  5 from 2004Ke06. Other  $T_{1/2}$ : 0.57 ms +31-15 (2002Ma61).

2004Ke06 (supersedes 2002KeZZ,2002LeZZ): source from  $^{96}\text{Ru}(^{78}\text{Kr},p3n)$ ,  $E(^{78}\text{Kr})=385$  MeV; tof and energy-loss gas detector and position-sensitive focal plane detector; observed correlated recoil-proton- $\alpha$  decay chain; measured  $T_{1/2}$ ,  $E(p)$ ,  $\%p$  for  $^{170}\text{Au}$  p decay.

2002Ma61:  $^{170}\text{Au}$  source from  $^{96}\text{Ru}(^{78}\text{Kr},p3n)$ ,  $E(^{78}\text{Kr})=400$  MeV; fragment mass analyzer, gas-filled position sensitive parallel-grid counter, double-sided Si strip detector; measured  $E(p)$ ,  $E\alpha$ ,  $\%p$ , parent  $T_{1/2}$ .

 $^{169}\text{Pt}$  Levels

<u>E(level)</u>	<u><math>J^\pi</math><sup>†</sup></u>
0.0	(7/2 <sup>-</sup> )

<sup>†</sup> From Adopted Levels.

Protons ( $^{169}\text{Pt}$ )

<u>E(p)</u>	<u>E(<math>^{169}\text{Pt}</math>)</u>	<u>L</u>	<u>Comments</u>
1741 5	0.0	5	$E(p)$ : weighted average of 1743 6 (2004Ke06) and 1735 9 (2002Ma61).