

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. Ohya	NDS 111,1619 (2010)	20-Jan-2009

$Q(\beta^-)=9.8\times 10^3$ syst; $S(n)=5.7\times 10^3$ syst; $S(p)=1.37\times 10^4$ syst; $Q(\alpha)=-1.05\times 10^4$ syst [2012Wa38](#)

Note: Current evaluation has used the following Q record \$ 9175 syst 5920 syst 13428 syst -9653 syst [2009AuZZ](#).

$\Delta Q(\beta^-)=1034$, $\Delta S(n)=1082$, $\Delta S(p)=1208$, $\Delta Q(\alpha)=1142$ ([2009AuZZ](#)).

$Q(\beta^-n)=4996$ 909 (syst,[2009AuZZ](#)).

[2006Mo07](#): ^{121}Rh produced and identified in $^9\text{Be}(^{136}\text{Xe},X)$ reaction at $E^{136}\text{Xe}=121.8$ MeV/nucleon. fragment separator, Si(PIN) detectors, Si strip detectors, single-sided Si strip detectors. Implantation and decay events were time stamped and correlated. Measured half-life from β spectrum.

Others (tentative evidence for the formation of ^{121}Rh):

[1998Do08](#): $^{208}\text{Pb}(^{238}\text{U},X)$ $E=750$ MeV/nucleon. fragment recoil separator. measured (fragment)(β and/or γ) coincidence.

Tentative evidence for the formation of ^{121}Rh with a measured fractional yield of 0.005 3.

[1994Be24](#) (from the same lab as [1998Do08](#)): same reaction as in [1998Do08](#), 3 counts assigned to ^{121}Rh .

 ^{121}Rh Levels

E(level)	$T_{1/2}$	Comments
0	151 ms +67-58	$\% \beta^- = 100$; $\% \beta^- n = ?$ $T_{1/2}$: from timing of β spectrum (2006Mo07). E(level): assumed as the g.s.(evaluator). J^π : systematics: $J^\pi = 7/2^+$ for $^{105,107,109}\text{Rh}$.