^{120}Rh β^- decay (132 ms) 2004Wa26

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	30-Jun-2017

Parent: ^{120}Rh: E=0; $T_{1/2}$=132 ms *5*; Q(β^-)=11470 *SY*; %β^- decay=100.0

^{120}Rh-$T_{1/2}$: From ^{120}Rh Adopted Levels.

^{120}Rh-Q(β^-): 11470 *200* (syst,2017Wa10).

^{120}Rh-%β^- decay: Assumed %β^-=100, %β^-n≤5.4 (2004Mo06).

2004Wa26: ^{120}Rh were produced in the fragmentation of a 120 MeV/nucleon ^{136}Xe beam incident on a Be target. The resulting fragments were separated using the A1900 FRS spectrometer. The desired fragments were implanted in the NSCL β counting system which included a double-sided Si strip detector (DSSD) to correlate implants of known Z and A with subsequent β-decay events. Measured Eγ, delayed β gated γ rays, (^{120}Rh fragment)γ coin. See also thesis by 2006ToZW.

^{120}Pd Levels

E(level)	J^π
0	0^+
438	(2^+)
1056	(4^+)

γ(^{120}Pd)

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Comments
438	438	(2^+)	0	0^+	
618†	1056	(4^+)	438	(2^+)	E_γ: tentative placement; no (438γ)(618γ) evidence observed, but γ near this energy confirmed by 2007St19 and 2013Wa28 in reaction based γ-ray spectroscopy.
x911					
x1123					

† Placement of transition in the level scheme is uncertain.

x γ ray not placed in level scheme.

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Decay Scheme