

^{95}Rh IT decay (18.8 ns) 1994Ro08

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, G. Mukherjee, A. A. Sonzogni		NDS 111, 2555 (2010)	30-Jun-2009

Parent: ^{95}Rh : E=2236 3; $J^\pi=(17/2^-)$; $T_{1/2}=18.8$ ns 10; %IT decay=100.0

E(^{40}Ca) = 180 MeV, measured E_γ , I_γ , $\gamma(q)$ $\gamma\gamma$ -coin using $^{58}\text{Ni} + ^{40}\text{Ca}$ reaction with NORDBALL array, consisting of 15 HPGe (BGO shielded) at 79°, 101° and 143°; particle identification using neutron wall with 11 liquid scintillators and Si ball with 21 detectors.

α : [Additional information 1](#).

 ^{95}Rh Levels

E(level)	J^π [†]	$T_{1/2}$ [†]
0.0	9/2 ⁺	5.02 min 10
1351 3	(13/2 ⁺)	
2067	(17/2 ⁺)	
2236	(17/2 ⁻)	18.8 ns 10

[†] From the Adopted Levels.

 $\gamma(^{95}\text{Rh})$

E_γ	$E_i(\text{level})$	J^π_i	E_f	J^π_f	Mult. [†]	α	$I_{(\gamma+ce)}$ [‡]	Comments
169.0 2	2236	(17/2 ⁻)	2067	(17/2 ⁺)	(E1)	0.0323	100	ce(K)/($\gamma+ce$)=0.0274 4; ce(L)/($\gamma+ce$)=0.00322 5; ce(M)/($\gamma+ce$)=0.000594 9; ce(N)/($\gamma+ce$)=9.73×10 ⁻⁵ 14; ce(O)/($\gamma+ce$)=4.56×10 ⁻⁶ 7
716.2 2	2067	(17/2 ⁺)	1351	(13/2 ⁺)	(E2)		100	ce(K)/($\gamma+ce$)=0.00184 3; ce(L)/($\gamma+ce$)=0.000220 3; ce(M)/($\gamma+ce$)=4.09×10 ⁻⁵ 6; ce(N)/($\gamma+ce$)=6.75×10 ⁻⁶ 10
1350.7 2	1351	(13/2 ⁺)	0.0	9/2 ⁺	(E2)		100	ce(O)/($\gamma+ce$)=3.27×10 ⁻⁷ 5 ce(K)/($\gamma+ce$)=0.000434 6; ce(L)/($\gamma+ce$)=4.98×10 ⁻⁵ 7; ce(M)/($\gamma+ce$)=9.22×10 ⁻⁶ 13; ce(N)/($\gamma+ce$)=1.530×10 ⁻⁶ 22 ce(O)/($\gamma+ce$)=7.80×10 ⁻⁸ 11 Mult.: from the adopted gammas.

[†] From the Adopted Levels.

[‡] Absolute intensity per 100 decays.

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Decay Scheme

%IT=100.0

