¹²²Rh IT decay (0.82 μ s) 2012Ka36

Type Author Citation Literature Cutoff Date
Full Evaluation Balraj Singh ENSDF 30-Nov-2013

Parent: 122 Rh: E=271.0 7; $T_{1/2}$ =0.82 μ s +13-11; %IT decay=100.0

¹²²Rh-%IT decay: Assumed %IT=100.

2012Ka36: 122 Rh produced in Be(238 U,X), beam at E=345 MeV/nucleon provided by the RIBF accelerator complex at RIKEN facility. Fission fragments were separated and analyzed by BigRIPS separator, then transported to focal plane of ZeroDegree spectrometer and finally implanted in an aluminum stopper. Particle identification was achieved by Δ E-tof-B ρ method. Delayed gamma rays from microsecond isomers were detected by three clover-type HPGe detectors. Measured E γ , I γ , $\gamma\gamma$ -coin, isomer half-life. Deduced levels.

122Rh Levels

E(level)	$T_{1/2}$ 0.82 μ s +13-11		E(level): reverse ordering of the 63.9-207.1 γ cascade is also possible. Number of implanted fragments=8.6×10 ³ . $T_{1/2}$: from $\gamma(t)$ method (2012Ka36).			
0 207.1? 5 271.0 7						
$\underline{\gamma^{(122}\text{Rh})}$						
E_{γ}	I_{γ}	$E_i(level)$	E_f	Mult.	Comments	
63.9 [†] 5 207.1 [†] 5	35 <i>9</i> 100 <i>17</i>	271.0 207.1?	207.1?	D,E2	Mult.: from intensity balance argument.	

[†] Reverse ordering of the 63.9-207.1 γ cascade is also possible.

