^{116}Ag IT decay (20 s) 2009Ba52,2005Ba94

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 111, 717 (2010)	1-Dec-2009

Parent: ^{116}Ag: E=47.9 *1*; J^{π}=(3$^+$); $T_{1/2}$=20 s *1*; %IT decay=7 *4*

^{116}Ag-%IT decay: %IT=7 *4* (2005Ba94).

2009Ba52,2005Ba94: ^{116}Ag activity was produced by 40-MeV protons bombarding a $^{238}UC_x$ target installed at the On-Line Test Facility (OLTF) at the Holifield Radioactive Ion Beam Facility (HRIBF). Fission products was separated and deposited on a moving tape collector (MTC).

Measured Eγ, Iγ, γγ, ce, ceγ coin with the (CARDS) detector array, composed of the three segmented-clover Ge detectors, plastic scintillators and a high-resolution Si conversion-electron spectrometer (BESCA).

All data are from 2005Ba94, unless otherwise stated.

^{116}Ag Levels

E(level)	J^{π}	$T_{1/2}$	Comments
0	(0$^-$)	237 s *5*	%β^-=100 $T_{1/2}$: from 2009Ba52. Other: 230 s *5* (2005Ba94).
47.9 *1*	(3$^+$)	20 s *1*	%IT=7 *4*; %β^-=93 *4* E(level),J^{π},$T_{1/2}$: From 2005Ba94. Likely configuration=π1/2[301]⊗ν7/2[523].

γ(^{116}Ag)

E_γ	E_i(level)	J_i^{π}	E_f	J_f^{π}	Mult.	α‡	$I_{(\gamma+ce)}$†	Comments
47.9 *1*	47.9	(3$^+$)	0	(0$^-$)	E3	598	7 *4*	K/L=0.19 *4*; M/L=0.24 (2005Ba94) α: from BrIcc code.

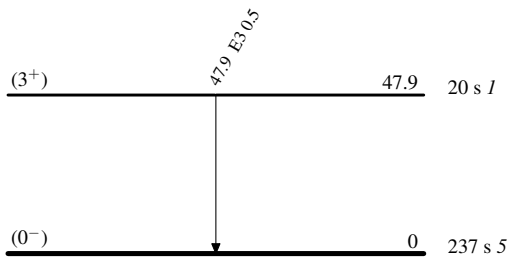
† For absolute intensity per 100 decays, multiply by 0.07 *4*.

‡ Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

^{116}Ag IT decay (20 s) 2009Ba52,2005Ba94

Decay Scheme

%IT=7 *4*



$^{116}_{47}Ag_{69}$