

$^{116}\text{Ag IT decay (9.3 s)}$ [2009Ba52](#),[2005Ba94](#)

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

Parent: ^{116}Ag : E=128.8 I ; $J^\pi=(6^-)$; $T_{1/2}=9.3$ s 3; %IT decay=8 4

^{116}Ag -%IT decay: %IT=8 4 ([2005Ba94](#)).

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

Previous measurement : [1971FO22](#), [1990FO07](#).

Measured $E\gamma$, $I\gamma$, $\gamma\gamma$, ce, cey 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.

 $^{116}\text{Ag Levels}$

| E(level) | J^π | $T_{1/2}$ | Comments |
|-----------|---------|-----------|--|
| 47.9 I | (3^+) | 20 s I | %IT=7 4; % β^- =93 4 |
| 128.8 I | (6^-) | 9.8 s I | E(level), J^π , $T_{1/2}$: From 2005Ba94 . Likely configuration= $\pi 5/2[422] \otimes \nu 7/2[523]$ or $\pi 3/2[431] \otimes \nu 9/2[514]$. |

 $\gamma(^{116}\text{Ag})$

| E_γ | $E_i(\text{level})$ | J_i^π | E_f | J_f^π | Mult. | $I_{(\gamma+ce)}{}^\dagger$ | Comments |
|------------|---------------------|-----------|-------|-----------|-------|-----------------------------|---|
| 80.9 I | 128.8 | (6^-) | 47.9 | (3^+) | E3 | 8 4 | K/L=0.82; M/L=0.25; $\alpha(K)\exp=11$ 5 (2005Ba94) B(E3)(W.u.)=0.011 3 α : from BrIcc code. |

[†] For absolute intensity per 100 decays, multiply by 0.08 4.

$^{116}\text{Ag IT decay (9.3 s)}$ **2009Ba52,2005Ba94**Decay Scheme

%IT=8 4

