^{116}I IT decay 1990Wu01

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

Parent: ^{116}I: E=430.4 *5*; $T_{1/2}$=3.27 μs *16*; %IT decay=100.0

Activity: ^{92}Mo(^{28}Si,3pnγ) E=120 MeV.

Measured: γ, $\gamma\gamma$, recoil-mass spectrometer (RMS), γ(t). The RMS determines with a good separation the nucleus which is isomer.

The γ's are not placed in a level scheme, but two independent branches are found from $\gamma\gamma$ correlations. One path includes 65, 105 (doublet), 109 γ's. The other: 114, 227 γ's. The first cascade gives E(isomer)≥385. One component of 105 doublet could correspond to the 104.5γ seen in ^{116}Xe ε decay.

^{116}I Levels

E(level)	$T_{1/2}$
0.0	
430.4 *5*	3.27 μs *16*

$\gamma(^{116}I)$

E_γ	I_γ	E_i(level)	Comments
^{x}65.4			
^{x}105	180 *28*		E_γ: a doublet.
^{x}109.6	100		
^{x}114.2	33 *5*		
^{x}227.2	36 *5*		

^{x} γ ray not placed in level scheme.