

${}^{198}\text{Pt}({}^{48}\text{Ca},\text{X}\gamma)$ 2004IsZX

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	T. W. Burrows	NDS 108, 923 (2007)	20-Feb-2007

$E=8.5$ MeV/nucleon. Measured γ 's with an isomer-scope (detects projectile-like fragments by Si $\Delta E/E$ and absorbs prompt γ 's At target by a tungsten shield). Atomic mass and atomic number of the isomer identified by ΔE distributions derived from $I\gamma$'s.

 ${}^{47}\text{K}$ Levels

E(level)	J^π [†]	$T_{1/2}$	Comments
0	$1/2^+$		
360	$3/2^+$	1.1 ns 3	
2020	$7/2^-$	6.3 ns 4	J^π : As proposed by 2004IsZX; No details given.

[†] From the Adopted Levels, except As noted.

 $\gamma({}^{47}\text{K})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [†]	Comments
360	360	$3/2^+$	0	$1/2^+$		
1660	2020	$7/2^-$	360	$3/2^+$	M2	$B(M2)(\text{W.u.})=0.030$
2020	2020	$7/2^-$	0	$1/2^+$		

[†] From W(In plane)/W(out of plane).

 ${}^{198}\text{Pt}({}^{48}\text{Ca},\text{X}\gamma)$ 2004IsZXLevel Scheme