

$^{102}\text{Pd}(p,2n\gamma)$  1980Ka25

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2006

E=19– 28 MeV.

Measured:  $\gamma$ ,  $\gamma\gamma$ , excit,  $\gamma\gamma(t)$ , Ge(Li). $^{101}\text{Ag}$  Levels

E(level)	$J^\pi^\dagger$	$T_{1/2}$	E(level)	$J^\pi^\dagger$	E(level)	$J^\pi^\dagger$	E(level)	$J^\pi^\dagger$
0	9/2 <sup>+</sup>		750.7	(3/2 <sup>-</sup> )	1503.6		2114.2	
98.1	7/2 <sup>+</sup>		797.6	(5/2 <sup>-</sup> )	1573.1	15/2 <sup>+</sup>	2156.7	
274.2	1/2 <sup>-</sup>	3.12 s	861.3	13/2 <sup>+</sup>	1769.2	17/2 <sup>+</sup>	2620.5	21/2 <sup>+</sup>
686.3	11/2 <sup>+</sup>		1475.2		2016.1	+		

 $^\dagger$  From Adopted Levels. $\gamma(^{101}\text{Ag})$ 

$E_\gamma^\ddagger$	$I_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult. <sup>†</sup>	Comments
98.1 3	212 14	98.1	7/2 <sup>+</sup>	0	9/2 <sup>+</sup>	M1	Mult.: From IT decay.
174.5 3	16 5	861.3	13/2 <sup>+</sup>	686.3	11/2 <sup>+</sup>		
176.1 3	78 5	274.2	1/2 <sup>-</sup>	98.1	7/2 <sup>+</sup>	E3	B(E3)(W.u.)=0.1223 15 Mult.: From IT decay.
196.0 3	2.4 6	1769.2	17/2 <sup>+</sup>	1573.1	15/2 <sup>+</sup>		
246.9 3	14 1	2016.1	+	1769.2	17/2 <sup>+</sup>	M1	Mult.: see ( $^3\text{He},3n\text{p}\gamma$ ).
476.5 3	13 1	750.7	(3/2 <sup>-</sup> )	274.2	1/2 <sup>-</sup>	D	
523.4 3	100 6	797.6	(5/2 <sup>-</sup> )	274.2	1/2 <sup>-</sup>	Q	
541.1 3	<1	2114.2		1573.1	15/2 <sup>+</sup>		
604.4 3	<1	2620.5	21/2 <sup>+</sup>	2016.1	+		
652.6 3	<10	2156.7		1503.6			
677.6 3	10 2	1475.2		797.6	(5/2 <sup>-</sup> )		
682.0 3	10 2	2156.7		1475.2			
686.3 3	122 3	686.3	11/2 <sup>+</sup>	0	9/2 <sup>+</sup>	D	
706.0 3	48 2	1503.6		797.6	(5/2 <sup>-</sup> )		
711.9 3	27 2	1573.1	15/2 <sup>+</sup>	861.3	13/2 <sup>+</sup>		
861.5 3	100	861.3	13/2 <sup>+</sup>	0	9/2 <sup>+</sup>	Q	
907.9 3	18 1	1769.2	17/2 <sup>+</sup>	861.3	13/2 <sup>+</sup>	Q	

 $^\dagger$  From  $\gamma(\theta)$ . $^\ddagger$   $\Delta E$  estimated by evaluator with comparison with already known energies.

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## Level Scheme

Intensities: Relative  $I_\gamma$ 

## Legend

- $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
- $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
- $I_\gamma > 10\% \times I_\gamma^{\text{max}}$

