

<sup>114</sup>Cd( $\alpha,\gamma$ ) 1976Ma09

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Mar-2009

E=15 MeV.  
Measured ce/ $\gamma$  (1976Ma09).

<sup>117</sup>Sn Levels

E(level)	E(level)	E(level)	E(level)
0	711.7	1179.4	1468.6
158.5	1004.6	1307.8	1496.5
317.3	1020	1446.5	1578.5

$\gamma$ (<sup>117</sup>Sn)

E $\gamma$	I $\gamma$ <sup>†</sup>	E <sub>i</sub> (level)	E <sub>f</sub>	Mult. <sup>‡</sup>	Comments
158.5 3	100	158.5	0		
158.8		317.3	158.5		
553.2 6	26 7	711.7	158.5	M1,E2	$\alpha(K)_{exp}=0.0065$ 18
<sup>x</sup> 769.4 12	1.2 2				
<sup>x</sup> 774.4 16	1.6 3				
<sup>x</sup> 803.2 5	2.7 3				
<sup>x</sup> 822.6	2.4 4				
846 1	2.5 6	1004.6	158.5	M1	$\alpha(K)_{exp}=0.0019$ 6
861.5 9	15.5 16	1020	158.5	M1	Mult.: assumed for normalization of $\alpha(exp)$ .
<sup>x</sup> 959.1 13	1.7 5				
<sup>x</sup> 967.0 7	18.4 18			M1	$\alpha(K)_{exp}=0.00144$ 25
989.7 5	12.4 12	1307.8	317.3	E2	$\alpha(K)_{exp}=0.00108$ 19
1004.6 6	7.6 8	1004.6	0	E2,M1	$\alpha(K)_{exp}=0.00081$ 14
1020	<10.8	1020	0		
1020.9	<10.8	1179.4	158.5		$\alpha$ : $\alpha(K)_{exp}=0.0010$ 3 for 1020 $\gamma$ +1020.9 $\gamma$ .
<sup>x</sup> 1029.7	2.5 4				
<sup>x</sup> 1161 1	5.1 5				
<sup>x</sup> 1275.8	5.3 13				
1288.0 <sup>#</sup>		1446.5	158.5		
1309.8 6	8.0	1468.6	158.5	M1	$\alpha(K)_{exp}=0.00083$ 13
1337.8 10	2.1 2	1496.5	158.5		
<sup>x</sup> 1396.7	2.1 3				
1420 <sup>#</sup>		1578.5	158.5		
1446.5 7	2.8 8	1446.5	0		
1468.6 3	5.6 14	1468.6	0		
1496.3 <sup>#</sup>		1496.5	0		
1578 1	1.8 3	1578.5	0		
<sup>x</sup> 1589.3	3.2 5				
<sup>x</sup> 1793.5 5	4.3 9				

<sup>†</sup> Relative photon intensity.

<sup>‡</sup> From Ice(K)/I $\gamma$  normalized to  $\alpha(K)(861.5)=0.00192$ .

<sup>#</sup> Placement of transition in the level scheme is uncertain.

<sup>x</sup>  $\gamma$  ray not placed in level scheme.

