¹¹⁰Cd(³He,d) **1988Ta01**

History				
Type	Author	Citation	Literature Cutoff Date	
Full Evaluation	Jean Blachot	NDS 110, 1239 (2009)	1-Feb-2008	

 $E(^{3}He)=22.5 \text{ MeV}.$

Enriched target 96%.40 μ g/cm².

Outgoing deuterons analyzed by an Enge split-pole magnetic spectrometer and recorded on nuclear emulsion plates.

Measured at 12 angles from 7.5° to 60° .

Normalization to absolute σ done with ³He detected with scattering chamber and Si detector at 37.4°.

The FWHM for deuterons is 16 keV.

¹¹¹In Levels

E(level)	L	C^2S^{\dagger}	Comments
0	4	0.16	
536 5	1	0.084	
801 5	1	0.054	
1101 5	2	0.45	
1188 5	0	0.27	
1216 5	2	0.024	
1344 5	2	0.20	
1500 <i>5</i>	4	0.30	
1919 <i>5</i>	2	0.046,0.087	
2085 7	0	0.19	
2303 7	2	0.014,0.025	
2341 7	2	0.031,0.053	
2373 7			
2481 7	2	0.033,0.062	
2531 7	2+5		$C^2S: 0.037, 0.072, 0.23$ for $5/2^+, 3/2^+, 11/2^-$, respectively.
2589 7	2	0.035,0.067	, , , , , , , , , , , , , , , , , , ,
2616 7	0	0.0059	
2657 7	2	0.015,0.030	
2688 7			
2769 <i>7</i>	2	0.045,0.075	
2804 7		,	
2821 7	2+4		$C^2S: 0.036, 0.061, 0.075 \text{ for } 5/2^+, 3/2^+, 7/2^+, \text{ respectively.}$
2850 7			Shown in authors fig. 3 but not table ii.
2886 7	0		
2965 7			
3015 7	0	0.034	
3028 7	0		J^{π} : the 3028 level is given with L=2 by 1988Ta01 but assigned as $1/2^+$. The L=2 is apparently a misprint. In the authors' Fig. 2, $\sigma(\theta)$ for 3015+3028 (mislabelled as 3028 and 3074) is fitted with L=0. See also Fig. 3.
3074 <i>7</i> 3112 <i>7</i>	2	0.054,0.096	
3132 7	2	0.032,0.055	
3160 7	2	0.019,0.032	Mislabelled as 3260 in authors' table 7. See fig. 3.
3244 7	0	0.019,0.032	Pristabelled as 5200 in additions table 7. See fig. 5.
3254 7	0	0.032	
3388 7	U	0.037	

[†] Normalized to the sum-rule limit for the lowest three levels which are assumed to be single-hole states. Above 1500 the pairs of values correspond to $5/2^+$ and $3/2^+$, respectively.