

$^{115}\text{In}(\text{n},\gamma)$ E=resonance 1974Co35

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

E(n)=3-430 eV.

S(n) derived from measurement: 6784.4 *ll*.

Measured: E γ , I γ Ge(Li) detector, natural targets.

Primary γ 's in the range 5.4-6.7 MeV have been studied.

 ^{116}In Levels

E(level)	J π [†]	E(level)	J π [†]	E(level)	J π [†]	E(level)	J π [†]
0.0		722.7 <i>l3</i>	3 ⁺ , (2 ⁺)	974.5 <i>6</i>		1204.9 <i>l6</i>	6 ⁺ , (7 ⁺)
127.9 <i>5</i>	4 ⁺ , 5 ⁺	728.9 <i>5</i>	3 ⁻	1007.3 <i>4</i>	6 ⁻	1213.5 <i>5</i>	4, 5
223.4 <i>5</i>	4 ⁺ , 5 ⁺	736.2 <i>7</i>	4 ⁺ , 5 ⁺	1016.9 <i>2</i>	4 ⁻ , 5 ⁻	1252.3 <i>l5</i>	3 ⁺
273.7 <i>l0</i>	2 ⁺ , 3 ⁺	746.6 <i>l1</i>	3 ⁺	1030.1 <i>8</i>	4 ⁺ , 5 ⁺	1258.5 <i>4</i>	3 ⁻
313.6 <i>4</i>	4 ⁺ , 5 ⁺	791.0 <i>9</i>	3 ⁺	1053.0 <i>4</i>	4 ⁻ , 5 ⁻	1285.3 <i>2</i>	4 ⁻ , 5 ⁻
373.3 <i>3</i>	6 ⁻	814.2 <i>4</i>	4 ⁺ , 5 ⁺	1072.0 <i>3</i>	4 ⁻ , 5 ⁻	1292.5 <i>8</i>	3 ⁻
425.3 <i>6</i>	4 ⁺ , 5 ⁺	829.4 <i>7</i>	4 ⁺ , 5 ⁺	1080.8 <i>4</i>	$\frac{1}{2}$	1318.2 <i>6</i>	6 ⁻
459.0 <i>3</i>	4 ⁻ , 5 ⁻	849.9 <i>5</i>	3 ⁻	1088.1 <i>l1</i>	6 ⁺	1341.2 <i>5</i>	
555.1 <i>3</i>	4 ⁻ , 5 ⁻	874.3 <i>6</i>	3 ⁻ , (3 ⁺)	1097.7 <i>3</i>	3 ⁻	1374.2 <i>3</i>	4 ⁻ , 5 ⁻
648.7 <i>6</i>	6 ⁺ , (4 ⁺ , 5 ⁺)	892.4 <i>3</i>	4 ⁻ , 5 ⁻	1119.4 <i>l3</i>	3 ⁺		
657.8 <i>4</i>	3 ⁺	952.0 <i>3</i>	4 ⁻	1153.1 <i>6</i>	6 ⁻ , (6 ⁺)		

[†] Deduced by the authors from the relative strengths of primary γ 's from 4⁺ and 5⁺ resonances.

[‡] Level is a doublet. One member has J π =6⁻ on the basis of observation of E1 γ 's from 5⁺ resonances. For J=4 resonances, an M1 is observed leading to J π =3⁺, 4⁺, 5⁺.