

<sup>89</sup>Y(p,d) 1975Co11,1973Ta07

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan and A. A. Sonzogni		NDS 115, 135 (2014)	1-Nov-2013

$J^\pi(\text{target})=1/2^-$ .

**1975Co11**: E=27.8 MeV. Measured  $\sigma(\theta)$  using  $\Delta E$ -E Si telescope (FWHM=50 keV); DWBA analysis.

**1973Ta07**: E=55 MeV. Measured  $\sigma(\theta)$  using broad-range magnetic spectrometer and array of 200 proportional counters backed by plastic scintillators (FWHM=70-120 keV); DWBA analysis.

<sup>88</sup>Y Levels

E(level) <sup>†</sup>	L <sup>‡</sup>	C <sup>2</sup> S <sup>#</sup>	E(level) <sup>†</sup>	L <sup>‡</sup>	C <sup>2</sup> S <sup>#</sup>	E(level) <sup>†</sup>	L <sup>‡</sup>
0	4	5.2	1223 7	1	0.66	3.07×10 <sup>3</sup> 2	
233 <sup>@</sup> 7	4	6.9	1279 7	1	1.1	3.62×10 <sup>3</sup> 2	
393 <sup>@</sup> 7	1	1.2	1573 <sup>@</sup> 7	1	1.2	7.07×10 <sup>3</sup> 2	(1) <sup>a</sup>
705 <sup>&amp;</sup> 7	1,2	0.021,0.061	1708 7	3	2.5	8.88×10 <sup>3</sup> 2	
768 7	1	0.43	1.95×10 <sup>3</sup> 2			10.29×10 <sup>3</sup> 2	
1125 7	4	0.19	2.04×10 <sup>3</sup> 2				

<sup>†</sup> Up to 1708 keV, data are from **1975Co11**, above 1900 keV data are from **1973Ta07**.

<sup>‡</sup> From DWBA analysis of **1975Co11**, except where noted.

<sup>#</sup> From DWBA analysis of **1975Co11**.

<sup>@</sup> Used for spectrometer calibration. E from other experiments.

<sup>&</sup> Doublet indicated by L=1+2.

<sup>a</sup> From DWBA analysis of **1973Ta07**.