^{89}Y(α,^{3}He) 1972Go11

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, E. A. Mccutchan	NDS 165, 1 (2020)	1-Mar-2020

$J^\pi(^{89}Y)=1/2^-$.

1972Go11: E=65.7 MeV. Measured E(^{3}He), $\sigma(\theta)$, θ=15° and 20°. Magnetic spectrograph, nuclear emulsions. FWHM≈60 keV.

^{90}Y Levels

E(level)†	L†	S′‡	E(level)†	L†	S′‡	E(level)†	L†	S′‡
0	2	2.47	2088 *5*	5	0.26	3004# *5*	(2,5)	0.72,1.84
203 *5*	2	3.53	2245 *5*	5	2.28	3052 *5*		
1221 *5*			2475 *5*			3160# *5*	(2,5)	0.58,0.18
1376 *5*			2517# *5*	5	0.48	3347#	(4)	0.43
1574 *5*			2626 *5*			3516 *5*	5	0.66
1646 *5*			2753# *5*	(2,5)	0.17,0.13	3590 *5*		
1762 *5*			2840# *5*	4	1.13	3634# *5*	(4,5)	1.12,0.50
1814 *5*			2873 *5*			4069 *5*	5	0.84
1962 *5*	5	1.55	2939 *5*					

† 1972Go11 report values for excitation energies from their (d,p) measurement presented in the same article.

‡ From comparison of 15° data with DWBA calculations. Data normalized to ^{89}Y(d,p) results for the 203 keV state. Data for 2517 keV, 2840 keV, 3004 keV and 3634 keV were corrected for unresolved transitions before analysis.

Unresolved level.