^{110}Pd(d,^{3}He) 1987Ka29

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. Kumar(a), J. Chen(b) and F. G. Kondev	NDS 137, 1 (2016)	31-May-2016

Target $J^{\pi}(^{110}Pd)=0^{+}$.

1987Ka29: E(d)=50 MeV from KVI cyclotron at Groningen. Target: ≈300 μg/cm^2 with ≈ 35 μg/cm^2 carbon backing, 99% Enriched ^{110}Pd. Detectors: Magnetic spectrometer (FWHM=30 keV). Measured: $\sigma(\theta)$ (9 angles ranging from 4° to 30°). Deduced: Levels, J^{π}, L, spectroscopic factors.

^{109}Rh Levels

E(level)[†]	L[‡]	C^{2}S[#]	E(level)[†]	L[‡]	C^{2}S[#]	E(level)[†]	L[‡]	C^{2}S[#]
0	4	0.19	928	3	0.66	1522		
206	4	3.4	1017	2	0.13,0.097	1631	1	0.47
374	1	0.84	1097	4	1.8	1753	1	0.13,0.094
426	2	0.22	1162	(1,2)		1915		
570	1	0.56	1220	1	0.083	1953		
624	1+3		1280	(3,4)		2002		
743	1	1.1	1339	2	0.060	2037	1	0.26
856	3	2.0	1457	4	0.44	2091		

[†] From 1987Ka29, ΔE=5-10 keV.

[‡] From comparisons of experimental cross-section data with the DWBA predictions (1987Ka29).

[#] From 1987Ka29, S=(2j+1)/N×(dσ/dΩ)$_{exp}$/σ_{DWBA}, N is the normalization factor and j is the angular momentum of transferred particle.