^{135}Ba(^{3}He,d),(α,t) 1977KhZZ

		History		
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 152, 331 (2018)	1-Apr-2018

Target $J^\pi = 3/2^+$.

E(^{3}He)=24 MeV; E(α)=27 MeV. Measured σ(E(t),θ=35°,50°) (FWHM=12 keV) and σ(E(d),θ) for 2.5° or 5° steps (FWHM=15-18 keV) using magnetic spectrograph and nuclear emulsions.

1977KhZZ state that more than 60 levels were identified up to 1800 keV in one or both of the reactions; however, only ≈40 were indicated in figure 3.24.

^{136}La Levels

E(level)[†]	J$^{\pi}$[‡]	L[#]	E(level)[†]	E(level)[†]	E(level)[†]
0	1^+	2	342	716	1076
22	2^+	2	403	726	1114
45	3^+	2	418	754	1155
140	$(3,4)^{+}$[@]	4	436	798	1180
159	$(5)^+$	4	484	829	1211
173		4	543	840	1247
241			594	972	1257
257	4^+	2	617	999	
304		4	629	1006	
333			704	1028	

[†] From (α,t) at θ=50°. Values are only available as peak labels in Fig. 3.24.

[‡] Tentatively assigned on basis of spectroscopic strengths.

[#] From σ(^{3}He,d)/σ(α,t). A number of these assignments were confirmed by the (^{3}He,d) angular distributions.

[@] From discussion of this level reported in 1980SuZY.