^{196}Pt(^{3}He,d) 1978Mu08

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong, Zhou Chunmei	NDS 104, 283 (2005)	1-Jan-2002

Other: 1980AtZZ.
E=41.2 MeV; FWHM=25 keV; measured $\sigma(\theta)$ at θ=2°−35° (9-15 angles); compared to DWBA predictions.

^{197}Au Levels

Nilsson-model predictions for excitation energies and spectroscopic strengths are compared with ^{195}Au,^{197}Au,^{199}Au(^{3}He,d) results by 1978Mu08.
For the calculated one-nucleon transfer C^2S, using IBM model, see 1981Ve03.

E(level)[†]	L[‡]	C^2S[#]	Comments
0	2	0.263	
76 *4*	0	0.233	
271 *4*	2	0.106	
407 *4*	5	0.047[@]	11/2$^-$ isomerism occurs in ^{195}Au and ^{199}Au at 318- and 549-keV, respectively.
503 *4*	2	0.089[&]	
890 *4*	0	0.403	
1148 *4*	2	0.070	
1412 *4*	5	0.429[a]	Strong L=5 states occur in ^{195}Au and ^{199}Au at 1067- and 1910-keV, respectively (1978Mu08).
1708 *4*	2	0.055	
1997 *4*	3	0.024	
2149 *4*	3	0.150	
2251 *4*	3	0.021	
2420 *4*	3	0.019	
2523 *4*	3	0.026	
2631 *4*	(3)	0.038	
2776 *4*	6	0.29[b]	Strong L=6 states occur in ^{195}Au and ^{199}Au at 2350- and 3400-keV, respectively (1978Mu08).

[†] ΔE=4 keV.
[‡] From $\sigma(\theta)$ DWBA analysis.
[#] From d$\sigma(\theta)$ DWBA analysis; assumed J=7/2 if L=3, J=3/2 if L=2, except as noted.
[@] J=11/2 assumed.
[&] J=5/2 assumed.
[a] J=9/2 assumed.
[b] J=13/2 assumed.