^{197}Au(^{3}He,α),(α,αn),(p,pn) 1991Jo01,1990Na01

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong	NDS 108, 1093 (2007)	1-Jan-2006

$J^{\pi}(^{197}Au\ g.s.)=3/2^{+}$.

1991Jo01: E(^{3}He)=33 MeV. Measured dσ/dΩ at 35°. Q3D spectrograph. FWHM=6.7 keV. From U(ν)(6/12)*U(π)(6/4) supersymmetry, the negative-parity levels excited by L=6 transfer dominate in (^{3}He,α).

1990Na01: E(^{3}He)≤40 MeV, E(p)≤50 MeV. E(α)≤40 MeV. Ge(Li) measured σ(E), residual isomeric yield ratio, deduced reaction mechanism.

^{196}Au Levels

E(level)†	I(rel)(%)‡	E(level)†	I(rel)(%)‡	E(level)†	I(rel)(%)‡	E(level)†	I(rel)(%)‡
0.0	4 *1*	346 *3*	7 *2*	581 *5*	51 *5*	923 *3*	5 *2*
85 *2*	48 *3*	365 *2*	18 *2*	591 *2*	20 *4*	971 *2*	22 *3*
163 *2*	15 *2*	418 *1*	100 *5*	644 *2*	11 *2*	990 *4*	5 *2*
210 *2*	9 *2*	489 *3*	8 *3*	798 *3*	4 *2*		
252 *2*	6 *2*	498 *3*	8 *3*	833 *2*	17 *3*		
306 *3*	3 *1*	517 *3*	2 *1*	872 *2*	11 *2*		

† From 1991Jo01.
‡ Relative intensities at 35°.