^{202}Hg(t,α) 1981Fl05

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 187,355 (2023)	20-Sep-2022

1981Fl05: 17-MeV polarized triton beam; Detectors: magnetic spectrograph with FWHM=15-18 keV; Measured: $\sigma(\theta,\text{pol})$; DWBA analysis relative to ^{208}Pb(t,α).

^{201}Au Levels

E(level)[†]	J$^\pi$[‡]	S[#]	E(level)[†]	J$^\pi$[‡]	S[#]	E(level)[†]	J$^\pi$[‡]	S[#]	E(level)[†]
0[@]	3/2$^+$	0.44	653 *5*	5/2$^+$	0.27	1242 *5*	(5/2$^+$)	0.07	1698 *5*
101[&] *5*	1/2$^+$	0.23	810 *5*	5/2$^+$	0.03	1465 *5*	5/2$^+$	0.20	1900 *5*
359 *5*	3/2$^+$	0.05	897 *5*	1/2$^+$	0.09	1506 *5*	11/2$^-$	0.29	1941 *5*
549? *5*			1055 *5*	3/2$^+$	0.07	1548 *5*			1981 *5*
594[a] *5*	11/2$^-$	0.44	1216 *5*	5/2$^+$	0.12	1664 *5*			2055 *5*

† From 1981Fl05.
‡ Based on angular distributions and analyzing powers in 1981Fl05.
# Spectroscopic factors relative to ^{208}Pb(t,α)^{207}Tl. Values indicate larger fragmentation of the proton-hole strength compared to ^{203}Au, which is interpreted as a result of the larger collectivity (deformation) of the ^{202}Hg core relative to ^{204}Hg one (1981Fl05).
@ Main configuration=π $d^{-1}_{3/2}$.
& Main configuration=π $s^{-1}_{1/2}$.
a Main configuration=π $h^{-1}_{11/2}$.