^{92}Mo(^{3}He,t) 1973Ha02

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 113, 2187 (2012)	15-Sep-2012

E(^{3}He)=27.5 MeV, FWHM=55-68 keV, θ(lab)=12°−65°. DWBA analysis of $\sigma(\theta)$ (shape not reproduced very well).

^{92}Tc Levels

E(level)	J^{π}[†]	Comments
0.0	8^+	Configuration=$((\pi\ 1g_{9/2})(\nu\ 1g_{9/2})^{-1})8^+$.
203 *15*	$5,6^+$	Configuration=$((\pi\ 1g_{9/2})(\nu\ 1g_{9/2})^{-1})6^+$.
267 *15*	$3^+,4^+$	Configuration=$((\pi\ 1g_{9/2})(\nu\ 1g_{9/2})^{-1})4^+$.
373 *15*	$5,6^+$	Configuration=$((\pi\ 1g_{9/2})(\nu\ 1g_{9/2})^{-1})5^+$.
531 *15*	$3^+,4^+$	Configuration=$((\pi\ 1g_{9/2})(\nu\ 1g_{9/2})^{-1})3^+$.
583 *20*	$1^+,2^+,4^-$[‡]	Configuration=$((\pi\ 1g_{9/2})(\nu\ 1g_{9/2})^{-1})2^+$.
693 *20*	9^+	Configuration=$((\pi\ 1g_{9/2})(\nu\ 1g_{9/2})^{-1})9^+$.
968 *20*	$5,6^+$	Configuration=$((\pi\ 1g_{9/2})(\nu\ 2p_{1/2})^{-1})5^-$. However, $J^{\pi}=6^+$ is favored in Adopted Levels; if correct, configuration must be incorrect.
1129 *20*	≤3	
1222 *20*	≤3	
1324 *25*	≤3	
1453 *25*	$1^+,2^+,4^-$	Configuration=$((\pi\ 1g_{9/2})(\nu\ 1g_{9/2})^{-1})2^+$ and possibly another configuration.
1613 *25*	≤3	Configuration=$((\pi\ 1g_{9/2})(\nu\ 1g_{9/2})^{-1})1^+$ and possibly another configuration.
3813 *30*	0^+	Configuration=$((\pi\ 1g_{9/2})(\nu\ 1g_{9/2})^{-1})0^+$; isobaric analog of ^{92}Mo g.s., based on strength of excitation, E(level) and $\sigma(\theta)$ (1973Ha02).

[†] Authors′ assignments, based on excitation energies and systematics of (^{3}He,t) angular distributions, and by analogy to the ^{88}Sr(^{3}He,t)^{88}Y reaction. Authors′ suggested principal configuration, which gives the authors′ preferred J^{π}, is indicated for each level.

[‡] Configuration=$((\pi\ 1g_{9/2})(\nu\ 2p_{1/2})^{-1})4^-$ also possible (1973Ha02), but not consistent with adopted $J^{\pi}=(2^+)$.