^{92}Mo(^{16}O,^{15}O), (α,^{3}He) 1973Zi04

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 112, 1163 (2011)	15-Dec-2010

(^{16}O,^{15}O): E=104 MeV; magnetic spectrometer, θ(lab)=20°, 25°; FWHM≈250 keV. Measured peak cross section for various final states and deduced S (relative to S=1 for ^{91}Zr(g.s.)) for various values of J^{π}.
(α,^{3}He): E=65 MeV; magnetic spectrometer, θ(lab)=25°.

^{93}Mo Levels

E(level)[‡]	J^{π}[†]	S[#]	Comments
0	$5/2^+$	0.69	
90×10^1 *20*	$1/2^+$	0.25	E(level): absent in (α,^{3}He).
130×10^1 *20*	$7/2^+$,$9/2^+$	6.8,0.05	E(level): 1370 in (α,^{3}He).
150×10^1 *20*	$3/2^+$,$7/2^+$,$9/2^+$	32,15,0.11	E(level),L,S: possibly several unresolved states, based on comparison with Adopted Levels.
230×10^1 *20*	$11/2^-$	0.67	
3380[@]			
3960[@]			
4460[@]			

† Value(s) assumed by authors when calculating S.
‡ From (^{16}O,^{15}O); also present in (α,^{3}He), except as noted.
# Relative values (normalized so S=1.0 for the (^{16}O,^{15}O)^{91}Zr(g.s.) transition) deduced for (^{16}O,^{15}O) reaction from DWBA theory assuming the J^{π} value(s) indicated.
@ From (α,^{3}He); not observed in (^{16}O,^{15}O).