^{16}O(p,p^{3}He)

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu and J. E. Purcell	NDS 198,1 (2024)	1-Aug-2024

1973Be36: ^{16}O(p,p^{3}He) E=29, 39 and 62 MeV; analyzed particle knockout systematics.
1975Gr40, 1977Gr04: ^{16}O(p,p^{3}He) E=75 MeV; also ^{12}C(p,p^{3}He) measured p^{3}He-coin; compaired reaction on ^{12}C and ^{16}O, deduced S. Indicate the rection mechanism is more complex than quasifree knockout.

^{13}C Levels

E(level)	J$^{\pi}$[†]	L[†]	S[†]
0	1/2^{-}	1	1.57
3090	1/2^{+}		
3680	3/2^{-}	1	2.29
3850	5/2^{+}		
7600[‡]			

[†] From DWIA analysis of spectroscopic factors in (1975Gr40,1977Gr04). S is normalized to the predicted spectroscopic factor of the ^{12}C→^{9}B$_{g.s.}$ transition.

[‡] Some states are not associated with Adopted Levels because inadequate details for association are given in the literature.