^{92}Mo(^{16}O,^{16}O′) 1999Al23,1973Zi04

History

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

1999Al23: E(^{16}O)=48, 48.5, 49 MeV; nine surface barrier detectors 5° apart; measured $\sigma(\theta)$ at θ(c.m.)≈50°−170° for groups to g.s. and 1509 level; coupled-channels and double-folding calculations, deduced optical-model potentials.

1973Zi04: E(^{16}O)=104 MeV, θ(lab)=20°.

The ^{16}O′ spectrum of fig.5 of 1973Zi04 includes peaks at 3500, 4700, 5600, 6300, 7400. The authors note, however, that the two broad groups near 6 MeV probably correspond to Doppler broadened ^{16}O excited states. Also, since a weak group at 7500 appears in (^{16}O,^{16}O′) spectra from ^{93}Nb and ^{90}Zr, the evaluator suspects that the 7400 group may not correspond to a ^{92}Mo level either.

^{92}Mo Levels

E(level)†	Jπ†
0	0^+
1509	2^+

† From Adopted Levels (level energies rounded to nearest keV). Levels observed by 1999Al23.