^{9}Be(^{16}O,^{12}C) 1988We17

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

1987We08: ^{9}Be(^{16}O,^{12}C) E≈barrier; measured $\sigma(\theta)$; deduced ^{9}Be+α molecular effects role.
1988We17: ^{9}Be(^{16}O,^{12}C) $E_{c.m.}$=7.2,8.4,9,9.6,10.2 MeV; measured $\sigma(\theta)$, low-lying states; deduced ^{9}Be+α molecular effects existence. Second-order exact finite-range DWBA calculations.

Theory:
1994Os08: ^{9}Be(^{16}O,^{12}C) E=7.2-10.2 MeV; analyzed $\sigma(\theta)$. ^{13}C levels deduced spectroscopic factors. Exact finite-range DWBA.

^{13}C Levels

E(level)†	J$^{\pi}$†
0	1/2^{-}
3090	1/2^{+}
3850	5/2^{+}

† From α-cluster configuration analysis in (1988We17).