^{74}Ge(^{16}O,^{16}O′),(^{18}O,^{18}O′)   1976Co04,1977Bo19,1976Ng01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Ameenah R. Farhan	NDS 107, 1923 (2006)	30-Apr-2006

Others: 1983Os07, 1982En04, 1976Ch27, 1975Wi02, 1974GiZR, 1972Ob05, 1971KoZY.

Theory and analysis of data: 1981Ra08, 1981Vi01, 1980Lo01, 1979Fe03, 1977Le12.

1976Co04: (^{16}O,^{16}O), (^{16}O,^{16}O′), (^{18}O,^{18}O), (^{18}O,^{18}O′) at 56 MeV bombarding energy. Resolution=220 keV. $\sigma(\theta)$ data. Coupled-channel calculations. g.s. and first 2^+ state studied. For reanalysis of data see 1979Fe03.

1977Bo19: ^{76}Ge(^{16}O,^{18}O) at 77.6 MeV. Resolution=80 keV. $\sigma(\theta)$ data. Coupled-channel calculations. g.s. and first 2^+ state studied. See 1977Le12 for analysis of data. Other: 1983Os07.

1976Ng01: (^{16}O,^{16}O) at 76 MeV and (^{20}Ne,^{20}Ne) at 95 MeV. Resolution= 400-800 keV. $\sigma(\theta)$ data. Optical parameters deduced.

1982En04: (α,α) at 25 MeV. Resolution=65-100 keV. $\sigma(\theta)$ data.

1976Ch27: (^{6}Li,^{6}Li) at 50.6 MeV. Resolution=50-200 keV. $\sigma(\theta)$ data. Optical parameters deduced.

1975Wi02: (^{14}N,^{14}N) at 32-46 MeV. Resolution=300-500 keV. $\sigma(\theta)$ data. Optical parameters deduced.

1974GiZR: (^{74}Ge,^{74}Ge) at 81 MeV.

1972Ob05: (^{16}O,^{16}O′) at 40-56 MeV. Resolution=300-500 keV. $\sigma(\theta)$ data. Optical-model fits for first three levels.

1971KoZY: ^{70}Zn(^{16}O,^{12}C) at 48 MeV. No details are available.

^{74}Ge Levels

E(level)[†]	J$^\pi$[†]	Comments
0	0^+	
596	2^+	β_2=0.290, 0.298 from (^{16}O,^{16}O′) (1979Fe03,1976Co04).
		β_2=0.300, 0.298 from (^{18}O,^{18}O′) (1979Fe02,1976Co04).
		See also 1981Ra08 for analysis of data for this level.
1200	2^+	Populated in (^{16}O,^{16}O′) (1972Ob05).

[†] From 'Adopted Levels'.