

⁸⁸Sr(³He,d) 1971Vo08,1969Pi05

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 114, 1 (2013)	20-Oct-2012

1971Vo08: E=25 MeV, FWHM≈30 keV. Measured deuteron spectra at 10 angles between 5° and 40°, DWBA analysis, cross sections accurate to 15%.

1969Pi05 (also **1969PiZX,1968Ba56**): E=18 MeV, FWHM≈80 keV, E-ΔE telescopes. Measured σ(θ), DWBA analysis for 11 states up to 5320.

Others:

1976Ho11: reanalyzed S-values of **1971Vo08**.

1972Ha24 (also **1971HaYN**): E=33.4 MeV. σ(θ) and DWBA analysis for 0, 910, 1490 and 1740 states.

1967St13: E=37.7 MeV. σ(θ) and DWBA analysis for 0, 910, 3750, 4260 and 4660 states.

⁸⁹Y Levels

E(level) [†]	L [‡]	(2J _f +1)C ² S [‡]	Comments
0	1	1.85	(2J _f +1)C ² S: 1.47 (1976Ho11), 1.6 (1972Ha24), 1.8 (1969Pi05), 2.0 (1967St13).
910 20	4	7.40	(2J _f +1)C ² S: 5.87 (1976Ho11), 6.9 (1972Ha24), 8.8 (1969Pi05), 10.0 (1967St13).
1500 20	1	0.38	(2J _f +1)C ² S: 0.30 (1976Ho11), 0.5 (1972Ha24), 0.44, 0.54 (1969Pi05).
1740 20	3	0.79	(2J _f +1)C ² S: 0.63 (1976Ho11), 0.4 (1972Ha24), 0.55 (1969Pi05).
2220 20	(2)		
2610 20	4	0.25	
2880 20	(1+4)		L: 40% L=1 6060% L=4 (1971Vo08).
3060 20	1	0.02	
3510 20	1	0.07	(2J _f +1)C ² S: 0.07, 0.08 (1969Pi05).
3720 20	2	0.84	(2J _f +1)C ² S: 0.67 (1976Ho11), 0.95, 1.3 (1969Pi05), 1.10 (1967St13).
4000 20	0	0.036	
4180 20	2	0.27	(2J _f +1)C ² S: 0.22 (1976Ho11), 0.3, 0.4 (1969Pi05), 0.52 for a 4260 group (1967St13).
4460 20	0+2	0.018+0.02 7	L: 30% L=0 7070% L=2 (1971Vo08).
4580 20	2	0.40	(2J _f +1)C ² S: 0.32 (1976Ho11), 0.5, 0.7 (1969Pi05), 0.64 for a 4660 group (1967St13).
4840 20	2	0.32	(2J _f +1)C ² S: 0.4, 0.6 (1969Pi05).
4940 20			
5080 20	0	0.25	L: 2 (1969Pi05).
			(2J _f +1)C ² S: 0.19 (1976Ho11), 0.6, 0.8 for L=2 (1969Pi05).
5190 20	2	0.04	
5270 20	0	0.05	
5340 20	0	0.08	L: 2 (1969Pi05).
			(2J _f +1)C ² S: 0.4, 0.5 for L=2 (1969Pi05).
5430 20	2	0.09	
5620 20	(2)		
5720 20	(2)		
5870 20	2	0.31	(2J _f +1)C ² S: 0.25 (1976Ho11).
6100 20	2	0.10	
6200 20	4	0.82	
6280 20	2	0.42	(2J _f +1)C ² S: 0.34 (1976Ho11).
6480 20	0+2	0.018+0.13 6	L: 10% L=0 9090% L=2 (1971Vo08).
			(2J _f +1)C ² S: 0.014+0.110 (1976Ho11).
6590 20	2	0.06	
6680 20			
6780 20			
7190?#			
7720 20	(0)	0.155	
8370?#			

Continued on next page (footnotes at end of table)

$^{88}\text{Sr}(^3\text{He,d})$ [1971Vo08,1969Pi05](#) (continued)

^{89}Y Levels (continued)

† From [1971Vo08](#). [1969Pi05](#) report 17 states up to 7070.

‡ From DWBA analysis ([1971Vo08](#)).

Given only in figure 1 of [1971Vo08](#).