

<sup>84</sup>Sr(<sup>3</sup>He,d) 1975Me17

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen		NDS 116, 1 (2014)	31-Dec-2013

1975Me17: E=18 MeV, FWHM=23 keV,  $\theta=3.75^\circ-40^\circ$ . Enriched target. DWBA analysis of  $\sigma(\theta)$ . Deduced L-values, spectroscopic factors.

<sup>85</sup>Y Levels

E(level)	L <sup>†</sup>	(2J+1)C <sup>2</sup> S. <sup>†</sup>	E(level)	L <sup>†</sup>	(2J+1)C <sup>2</sup> S. <sup>†</sup>	E(level)	L <sup>†</sup>	(2J+1)C <sup>2</sup> S. <sup>†</sup>
0 <sup>#</sup>	1	1.48	1375 6	0	0.030	2519 6	2	0.066
20 <sup>#</sup> 4	4	6.0	1428 6	2	0.034	2551 6	2	0.10
268 4	3	1.80	1607 6	2	0.053	2748 6	2	0.22
417 4	1	0.96	1716 6	2	0.040	2840 6	(0)	0.040
436 4	2	0.20	1776 6	4	1.10	2939 6	2	0.56
639 4	1	0.072	1837 6	0	0.036	3041 6	0	0.058
803 4	2	0.041	1896 6	0	0.054	3110 6	0	0.096
883 4	2	0.015	1992 6	1	0.028	3168 6	(0)	0.036
936 4	1	0.054	2156 <sup>‡</sup> 6	0+2	0.012,0.059	3230 6	2	0.16
962 4	1	0.138	2223 <sup>‡</sup> 6	0+2	0.054+0.31	3270 6	2	0.22
1212 6	1	0.078	2427 6	2	0.050	3375 6	0	0.088
1278 6	2	0.084	2472 6	0	0.050			

<sup>†</sup> From DWBA. For L=1, 2, 3, and 4 transfer stripping to 2p<sub>1/2</sub>, 2d<sub>5/2</sub>, 1f<sub>5/2</sub> and 1g<sub>9/2</sub>, respectively, are assumed.

<sup>‡</sup> Unresolved doublet.

<sup>#</sup> From an analysis of  $\sigma(\theta)$  at forward angles, it was ascertained that the g.s. is 1/2<sup>-</sup> rather than 9/2<sup>+</sup>. The energy separation of the two members of this g.s. doublet is 20 keV 3.