^{84}Sr(d,p)   1971Mo02,1970Be24

History

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

1971Mo02: E=12 MeV, FWHM≈10 keV, θ=5°−90°.
1970Be24: E=20.7 MeV, FWHM=70 keV, θ=16°−100°.
All data are from 1971Mo02 unless otherwise stated. Good agreement exists between L-values and spectroscopic factors for those
   levels which have been observed by 1970Be24.

^{85}Sr Levels

E(level)[†]	L	$(2J_f+1)S$[#]	Comments
0[‡]	4	3.06	$(2J_f+1)$S: 2.09 (1970Be24).
238[‡]	1	0.40	$(2J_f+1)$S: 0.54 (1970Be24).
743	1	0.25	
767[‡]	2	0.70	$(2J_f+1)$S: 0.86 (1970Be24).
790			
1155	1	0.05	
1355[‡]	2	1.76	$(2J_f+1)$S: 1.99 (1970Be24).
1403	0	0.42	
1447			
1490			
1556	2	0.10	
1712			
1793[‡]	2	0.47	$(2J_f+1)$S: 0.59 (1970Be24).
1827	2	0.08	
1842	0	0.02	
1928	2	0.10	
1980			
2047	(2)	0.06	
2087			
2123			
2204			
2238	(2)	0.05	
2290			
2329	2	0.34	
2352			
2378	(2)	0.04	
2496	0	0.05	
2501	2	0.11	
2527	2	0.33	
2602	0	0.06	
2628	(2)	0.05	
2696			
2748	0	0.10	
2882	0	0.03	
2952	(2)	0.14	
2996			
3048			
3065			
3105			
3136[@]	(0)	0.04	
3169			
3301	0	0.10	
3336			
3380	(2)	0.09	

^{84}**Sr(d,p)**   **1971Mo02,1970Be24 (continued)**

^{85}Sr Levels (continued)

E(level)[†]	L	(2J$_f$+1)S[#]	E(level)[†]	L	(2J$_f$+1)S[#]	E(level)[†]
3408			3513			3598
3426			3532	2	0.05	3645
3455	0	0.03	3563	(0)	0.02	3672
3503			3582	0	0.02	

[†] From 1971Mo02, uncertainties are not given by the authors. A comparison of energies with those in Adopted Levels gives a deviation of ≤4 keV for eleven levels. Therefore, the evaluators have assigned an uncertainty of 5 keV to those levels where energies from this reactions are used in Adopted Levels.

[‡] Level also reported by 1970Be24.

[#] From 1971Mo02, for set I of the optical-model parameters.

[@] Doublet.