

⁸⁸Sr(³He,t) 1971Co20

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan and A. A. Sonzogni		NDS 115, 135 (2014)	1-Nov-2013

E(³He)=23 MeV. Measured $\sigma(\theta)$ using split-pole magnetic spectrometer and photographic emulsions (FWHM=20 keV); DWBA analysis.

⁸⁸Y Levels

E(level) [†]	J ^π [‡]	dσ/dΩ _{max} (μb/sr) [#]	E(level) [†]	J ^π [‡]	dσ/dΩ _{max} (μb/sr) [#]
0	(4 ⁻)	58	1598 5		7
234 5	(5 ⁻)	23	1705 5	(3 ⁺)	14
393 5		14	1732 5		5
678 5		9	1765 5		7
712 [@] 5		25	1832 5		14
767 5		18	1881 5		2
847 5		27	1913 5		2
989 5		37	1952 5	(2 ⁺)	38
1092 5		8	1971 5		15
1134 5		4	2056 5		57
1225 [@] 5		55	2136 5		10
1282 [@] 5		74	2210 5		
1323 5		3	2252 5		13
1478 5		14	2305 5		16
1573 5		5			

[†] From (³He,d), (α,t), (³He,α), and (³He,t) measurements of 1971Co20.

[‡] From coupled-channels calculations giving good fit of angular distributions (1973Co22). Single-step DWBA analysis does not reproduce the distribution shapes (1971Co20).

[#] Target thickness not well determined in 1971Co20, thus, cross sections are only accurate to within a factor of 2.

[@] Doublet.