^{88}Sr(e,e′) 1982VaZI,1968Pe02

History

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

1982VaZI: E=23.7 MeV to 49.9 MeV (Darmstadt). Measured $\sigma(\theta)$ using double-focusing spectrometer and 36 overlapping scintillators (FWHM=32-100 keV). E=70 MeV to 370 MeV (Bates Lab, MIT). Measured $\sigma(\theta)$ using a high resolution energy loss spectrometer, drift chamber, multiwire proportional counter and two Cherenkov counters (FWHM=20-40 keV). The adopted results are a synthesis of both measurements. Measurements are partially published in 1984Va16 and 1982Va05.

Others: 1974Fi05 (E=45 MeV to 121 MeV), 1968Pe02 (E=75 MeV), 1956He83.

Transition charge densities: 1983Sc01 and 1982VaZI.

Theoretical: 1985Co10, 1985He04.

^{88}Sr Levels

E(level)[†]	Jπ[‡]	Comments
0		
1836[@] *10*	2^+	B(E2)↑=0.085 *7* B(E2)↑: weighted average of 0.0822 *24* (1974Fi05) and 0.099 *5* (1968Pe02). Other: 0.140 *10* (1956He83).
2734 *7*	3^-	B(E3)↑=0.0728 *4* B(E3) from 1982VaZI (Bates measurement). Other: 0.068 *4* (1982VaZI, Darmstadt measurement), 0.062 *4* (1974Fi05), 0.081 *3* (1968Pe02).
3151 *7*		
3219 *7*	2^+[#]	B(E2)↑=0.0014 *7* B(E2)↑: From 1982VaZI.
3486[a] *7*	1^+	
3585[@] *10*	5^-	
3634 *7*	3^+	
3953 *7*	4^-	
3990[@&] *10*		
4034 *7*		B(E2)↑=0.013 *7* B(E2)↑: From 1982VaZI. Other: 0.019 *4* (1968Pe02).
4170[b]	5^-	
4225 *7*	3^-	
4269[b]		
4300[b]	4^+	
4355[ab]		
4368[b]	7^-	
4414[b]		
4441[b]	(4^+)	Possibly doublet since form factor shows no clear 4^+ distribution and energies determined from forward and backward scattering seem to be discrepant.
4485[&b]		
4514[b]		
4622[ab]		
4695 *7*		
4743[b]	6^-	
4765 *7*	2^+[#]	B(E2)↑=0.0016 *8* B(E2)↑: From 1982VaZI.
4801[&b]		
4846[ab]		
4873[b]	4^+	
4927[b]		
4987 *7*		

Continued on next page (footnotes at end of table)

^{88}Sr(e,e′) 1982VaZI,1968Pe02 (continued)

^{88}Sr Levels (continued)

E(level)[†]	Jπ[‡]	Comments
5011[ab]		
5087[&] 7		
5109[ab]	7^+	
5119 7	2^-	
5168 7		
5258[b]		
5321[b]		
5416[&b]		
5465[b]		
5486[&b]		
5518[b]		
5529[b]		
5655[&b]	8^+	
5680 7		
5728[b]		
5772[&b]		
5806[&] 7		
5821[a] 7		
5859[b]		
5925[ab]		
5951[b]		
5996 7		
6034[&b]		
6047[b]		
6106[b]		
6123 7		
6135 7		
6199 7	2^-	
6350 7		
6411 7		
6498 7		B(E2)=0.013 *3* if J=2, B(E3)=0.013 *3* if J=3 (1968Pe02).
6558 7		
6593 7		
7.0×10^3[c]		
7.3×10^3[c]		
7.75×10^3[c]		

[†] From 1982VaZI (Darmstadt), if not indicated otherwise.
[‡] From distorted-wave analysis of the form factors (1982VaZI). Agreement with other experiments is not very good (see Adopted Levels levels) so J^π's are not considered for the adopted values.
[#] Assignment uncertain since only two data points in forward direction are measured.
[@] From 1982VaZI (Bates).
[&] Only observed in forward direction.
[a] Only observed in backward direction.
[b] Observed by 1982VaZI (Bates). E from Adopted Levels.
[c] From 1968Pe02.