^{88}Sr(d,^{3}He) 1972Ha24,1973Co28,1972NeZR

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson and W. D. Kulp(a)	NDS 129, 1 (2015)	27-Jul-2015

1967Ka15: E(d)=21 MeV, θ=17.5°−52.5°. Si surface-barrier detectors arranged in ΔE-E system.
1971NeZN: E(d)=29 MeV, θ=20°−45°. Magnetic spectrograph.
1972Ha24: E(d)=35 MeV, θ=12°−60°, ΔE=20-30 keV. Si detectors in ΔE-E arrangement. 1972NeZR: E(d)=29 MeV, θ=20°−45°; same authors as 1971NeZN. 1973Co28: E(d)=28 MeV, θ=8°−50°, FWHM ≈ 50 keV. 1987Li12: E(d)=27.9 MeV, θ=0°−50°.

^{87}Rb Levels

E(level)[†]	L[‡]	C^2S[#]	Comments
0.0	1	3.8	
403	3	6.0	
846	1	0.40	
1580	1	≈0.15	L: 1972Ha24 give L=1 with a good fit to angular distribution, 1973Co28 give L=1+3 with a poor fit, although their datapoints are still consistent with L=1, although the situation there is ambiguous. 1972NeZR give L=4, and 1987Li12 give L=(4). But the level is a doublet in ^{87}Rb Adopted Levels with $J^\pi=1/2^-,3/2^-$ at 1578.01 and $J^\pi=(9/2)^+$ at 1578.10. C^2S: C^2S=0.15 for L=1 from 1971NeZN should be considered approximate since other values in 1971NeZN were revised in 1971NeZR. Also, C^2S=0.22 for L=1 (1972Ha24) and $C^2S \leq 0.35$ for L=1 (1973Co28). E(level): Uncertainty from 1972Ha24.
2420[@]	(1)	0.22	
2530[@]	1	0.27	

[†] From 1972Ha24, unless indicated otherwise.
[‡] The L values agree in all measurements, except for the 1580 level as noted.
[#] From 1972NeZR, unless indicated otherwise, normalized to give C^2S=6.0 for the 403 level. The values agree with those from the other measurements, except for the 1580 level. 1972NeZR assume $J^\pi=3/2^-$, $5/2^-$,$1/2^-$, $9/2^+$, $1/2^-$, and $1/2^-$ for the six levels. 1971NeZN assumed $J^\pi=1/2^-$ for the 1580 level.
[@] Observed by 1971NeZN and 1972NeZR, same authors, only.