^{94}Zr(^{3}He,α) 1977Ga17,1968Ru02

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 112, 1163 (2011)	15-Dec-2010

1977Ga17: E=39 MeV, FWHM=30-35 keV, θ(lab)=5°−40° (5° steps), magnetic spectrometer + semi; DWBA analysis of $\sigma(\theta)$ (normalization factor=23).

1968Ru02: E=25 MeV, FWHM≈140 keV, θ(lab)≈10°−90°, semi; DWBA analysis of $\sigma(\theta)$ (normalization factor=46.4).

^{93}Zr Levels

E(level)[†]	J$^{\pi}$[#]	L[‡]	C^{2}S[@]	Comments
0.0	5/2$^+$	2	2.61	
1490 *40*	3/2$^+$	(2)	0.66[&]	E(level),L: from 1968Ru02; probably same level as that adopted at 1425 keV.
2040 *8*		4	0.50	
2080 *8*		4	0.85	
3230 *12*	9/2$^+$	4	1.91	L from 1968Ru02; E=3140 *40*, C^{2}S=2.4 in 1968Ru02.
3830 *40*	9/2$^+$	4	1.5[&]	E(level),L: from 1968Ru02.

[†] From 1977Ga17, except as noted.
[‡] Obtained from comparison of $\sigma(\theta)$ with DWBA calculations (1977Ga17).
[#] Assumed for deduction of C^{2}S.
[@] C^{2}S from comparison with DWBA calculations (1977Ga17), except as noted.
[&] From data of 1968Ru02, renormalized by evaluator to correspond to same DWBA normalization factor (N=23) as used by 1977Ga17; however, this procedure gives C^{2}S=4.3 for g.s..