^{94}Zr(α,α') 1986Si17

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni	NDS 107, 2423 (2006)	1-Jan-2006

E=35.4 MeV, θ=10°−45°, FWHM=25-30 keV. DWBA. Isoscalar transition rates in single-particle units are derived from α angular distribution fits.
Deformation lengths adjusted from DWBA. $\delta_L = \beta_L R$ where β_L is the deformation parameter and R the nuclear radius .
E; ΔE≈10 for E≈2 MeV, ΔE≈20 for E≈5 MeV.
Other: 1969Bi03 (E=65 MeV), 1989Ku19 (E=50.1 MeV).

^{94}Zr Levels

E(level)	L†	δ_L (fm)	E(level)	L†	δ_L (fm)	E(level)	L†	δ_L (fm)
0.0			2940	5	0.26	3627	5	0.19
919	2	0.68	3077			3682		
1469	4	0.31	3163	4	0.30	3755	(4)	0.17
1671	2	0.42	3244	3	0.32	3917	4	0.25
2057	3	1.03	3345	5	0.23	4105	(3)	
2336	4	0.19	3379	3	0.19	4168	7	0.18
2372	2	0.22	3435	(3,4)		4370	4	0.14
2617	5	0.27	3493					
2881	4	0.33	3588	4	0.22			

† From DWBA.