

$^{96}\text{Zr}({}^3\text{He},\alpha)$ 1977Ga17

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, G. Mukherjee, A. A. Sonzogni		NDS 111, 2555 (2010)	30-Jun-2009

E=39 MeV. 72.5% enriched target. Measured $\sigma(\theta=5^\circ \text{ to } 40^\circ, 5^\circ \text{ steps})$; solid-state position-sensitive detectors. FWHM=30-35 keV. DWBA. See also $({}^3\text{He},\alpha)$ IAS.

 ^{95}Zr Levels

E(level)	J^π [†]	L	C ² S	E(level)	J^π [†]	L	C ² S
0.0	5/2 ⁺	2	4.50	2880 12	9/2 ⁺	4	0.11
950 8	1/2 ⁺	(0)	(0.05)	2930 12	9/2 ⁺	4	0.16
1617 8	3/2 ⁺ & 7/2 ⁺	2+4	0.05+0.10	3102 12	9/2 ⁺	4	0.74
1788 8	11/2 ⁻ , 7/2 ⁺	5,(4)	0.04,(0.05)	3152 12			‡
1900 8		2	0.29,0.22	3250 12	9/2 ⁺	4	0.16
2032 8	11/2 ⁻	5	0.78	3386 12	9/2 ⁺	4	0.51
2250 8	9/2 ⁺	4	0.29	3458 12	9/2 ⁺	4	2.00
2472 8		4	0.15,0.09	3780 12	9/2 ⁺	4	0.39
2647 12		4	0.08,0.04	3900 12	9/2 ⁺	4	1.00
2725 12		4	0.08,0.04	4300 12	9/2 ⁺	4	0.21
2816 12	1/2 ⁻	1	0.30	4580 12	9/2 ⁺	4	0.08
2827 12		4	0.09,0.03				

[†] Assumed for the extraction of C²S.

‡ Small.