^{96}Zr(^{3}He,d) IAS 1980Ga01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 111, 525 (2010)	19-Nov-2009

E(^{3}He)=39 MeV. Enriched target. Measured σ(E(d),θ); DWBA analysis.

Other reaction: ^{96}Zr(^{3}He,dp′) with E(^{3}He)=37.5 MeV; measured E(p′), I(p′), dp′(θ); deduced proton decay Γ to various levels in ^{96}Zr. (p′=proton emitted from IAS).

1973Fi14: ^{97}Zr(^{3}He,d) E(^{3}He)=30.2 MeV, measured σ(E(d),θ). L values agree with those quoted.

1970Za09: ^{97}Zr(d,n) E(d)=12 MeV, measured σ(E(n) (n tof). Did not observe ^{97}Zr g.s. analog state and concluded that s1/2 analog states are weakly populated.

^{97}Nb Levels

E(level)	J^{π} †	L	$(2J+1)C^2S$	Comments
14430 *30*	$(3/2)^+$	2	0.73	Analog of ^{97}Zr 1103 keV *3*/2$^+$ state. Other: 14570 *40* (1973Fi14).
14650 *30*	$(7/2)^+$	4	0.98	Analog of ^{97}Zr 1264 keV *7*/2$^+$ state. Other: 14730 *40* (1973Fi14).
15640 *30*	$(11/2)^-$	5	0.48	Analog of ^{97}Zr 2265 keV *11*/2$^-$ state. Other: 15750 *40* (1973Fi14).

† From analysis of dp′(θ).