^{91}Zr(p,n) IAR 1971Ki06,1970Fi02

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 113, 2187 (2012)	15-Sep-2012

1970Fi02: measured tof n spectra At 13 angles between 0° and 145° on resonances At E(p)=4.7 MeV and 5.3 MeV and At 5 energies above or below them; deduced n transmission coefficients.

1971Ki06: E(p)=3.5-4.4 MeV, pulsed beam; >92% enriched ^{91}Zr targets, self-supporting or thin (ΔE≈10 keV At 5 MeV) films on Pt; 4-16 min neutron flight paths; long counter for n detection; measured excitation functions At 30° using long counter; deduced neutron yields to individual low-lying states from integrated n angular distributions utilizing tof; measured energy and Γ for analog of lowest-energy 2^+ state In ^{92}Zr.

^{92}Nb Levels

E(level)†	J^π‡	Γ from 1971Ki06.	Comments
9956 *10*	2^+	33 keV *2*	E(p)(lab)=4154 keV *10* (1971Ki06).
10.496×10^3	4^+		E(p)(lab)=4700 keV (1970Fi02).
11.089×10^3	2^+		E(p)(lab)=5300 keV (1970Fi02).

† Calculated by evaluator using S(p)=5846.8 *18* (2011AuZZ) and the indicated resonance energy.

‡ If quoted states are isobaric analogs of 934, 1495 and 2067 states in ^{92}Zr.