

$^{94}\text{Zr}(\text{p,p}),(\text{p,p}') \text{ IAR}$ 1970Li22

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=6.0-8.5 MeV. Measured excit and $\sigma(\theta=60^\circ \text{ to } 170^\circ)$; Si(Li). See also $^{94}\text{Zr}(\text{d,p})$. Others: 1974Cu04. See 1983Lu03 for additional measurements.

 ^{95}Nb Levels

E(level) [†]	J^π [‡]	Comments
S(p)+6112 8	1/2 ⁺	IAS(^{95}Zr 954).
S(p)+6538 4	(5/2 ⁺)	IAS(^{95}Zr 1324).
S(p)+6869 5	3/2 ⁺	IAS(^{95}Zr 1618).
S(p)+6990 5	5/2 ⁽⁺⁾	IAS(^{95}Zr 1722).
S(p)+7193 5	(5/2 ⁺)	IAS(^{95}Zr 1940 or 1956).
S(p)+7537 10	1/2 ⁽⁺⁾	IAS(^{95}Zr 2285). J^π : discrepant with ^{95}Zr $J^\pi=3/2^+, 5/2^+$.
S(p)+7577 10	(3/2 ⁺)	IAS(^{95}Zr 2317).
S(p)+7641 6	(3/2 ⁺)	IAS(^{95}Zr 2372).
S(p)+7733 10		IAS(^{95}Zr 2464).
S(p)+7909 11	3/2 ⁺	IAS(^{95}Zr 2638).
S(p)+8012 10	(7/2 ⁺)	IAS(^{95}Zr 2732).
S(p)+8113 12	3/2 ⁺	IAS(^{95}Zr 2834). J^π : discrepant with L=4 in ($^3\text{He,d}$) IAR.
S(p)+8260 5	(3/2 ⁺)	IAS(^{95}Zr 2983).
S(p)+8289 5	(3/2 ⁺)	IAS(^{95}Zr 3012).
S(p)+8340 12	(7/2 ⁻)	IAS(^{95}Zr 3062). J^π : discrepant with ^{95}Zr $J^\pi=3/2^+, 5/2^+$.

[†] Uncertainties on resonance energies assumed to be the same as those given for the parent states by 1970Li22 (evaluator).

[‡] From $\sigma(\theta)$ in inelastic scattering and from elastic scattering data.