

$^{89}\text{Y}(\text{d}, ^3\text{He})$ 1972Ha24

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan and A. A. Sonzogni		NDS 115, 135 (2014)	1-Nov-2013

$J^\pi(\text{target})=1/2^-$.

1972Ha24: E(d)=30 MeV, 35.5 MeV, and 40 MeV. Measured $\sigma(\theta)$ using $\Delta\text{E-E}$ telescope consisting of Si surface-barrier detectors and Si(Li) detectors (FWHM=20-30 keV); DWBA analysis.

1967Ka15: E(d)=21 MeV. Measured $\sigma(\theta)$ using $\Delta\text{E-E}$ telescope consisting of two Si surface-barrier detectors (FWHM=130 keV); DWBA analysis.

 ^{88}Sr Levels

E(level)	L [†]	S [‡]	Comments
0	1	0.8	configuration: mainly $\pi 2p_{1/2}^{-2}$. S: 1.0 from 1967Ka15.
1836	1+3	2.4 [@]	S: 2.2 from 1967Ka15.
3.22×10^3 [#]	1+3	3.4 [@]	S: 1.6 from 1967Ka15.
3488	1	1.2	S: 1.2 from 1967Ka15.
3634	3	2.9	S: 2.2 from 1967Ka15.

[†] From DWBA analysis (1972Ha24).

[‡] Spectroscopic factor from DWBA measured at 40 MeV (1972Ha24). Values from 1967Ka15 are included in the comments. See 1972Ha24 for S values at 30 and 35.5 MeV.

[#] Probably unresolved doublet since S value exceeds theoretical prediction.

[@] Sum of L=1 and L=3 strengths.