

$^{130}\text{Te}(t,\alpha)$ 1973Co33

| Type | Author | History | Citation | Literature Cutoff Date |
|-----------------|---|---------|---------------------|------------------------|
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1973Co33: E=12 MeV; measured α spectra and $\sigma(\theta)$ using a magnetic spectrograph, $\theta=12.5-175^\circ$; deduced spectroscopic factors; enriched target. FWHM=30 keV. DWBA analysis.

1980Sh03: E=16 MeV; measured α spectra and $\sigma(\theta)$ using Enge split-pole magnetic spectrograph. FWHM=30 keV. DWBA analysis.

 ^{129}Sb Levels

| E(level) | L [#] | C ² S [†] | Comments |
|----------------------|----------------|-------------------------------|---|
| 0 | 4 | 1.75 | C ² S: if $1g_{7/2}$. Other: 1.85 (1980Sh03). |
| 640 10 | 2 | 0.20 | C ² S: if $2d_{5/2}$. Other: 0.06 (1980Sh03). |
| 913 10 | 2 | 0.05 | E(level): other: 910 (1980Sh03). C ² S: if $2d_{3/2}$. |
| 1450 [‡] 30 | | | |
| 2710 10 | 4 | 2.72 | C ² S: if $1g_{9/2}$. |
| 3071 10 | 1 | 0.82 | C ² S: if $2p_{1/2}$. |
| 3110 10 | | | |
| 3291 10 | | | |
| 3410 10 | 1 | 0.40 | C ² S: if $2p_{1/2}$, 0.32 if $2p_{3/2}$. |
| 3484 10 | 3 | 1.42 | C ² S: if $1f_{5/2}$. |

[†] C²S are relative values, normalized to $\Sigma C^2S=2$ for the low-lying levels with the assumption that ^{130}Te can be represented by two protons outside Z=50 core distributed among the $1g_{7/2}$, $2d_{5/2}$, $2d_{3/2}$, $3s_{1/2}$ and $1h_{11/2}$ orbitals.

[‡] From 1980Sh03.

[#] From DWBA in 1973Co33.