## $^{120}$Te(d,p) 1977Li05

| Type | Author | History Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | S. Ohya | NDS 111, 1619 (2010) | 20-Jan-2009 |

E(d)=12 MeV, target(≈100%) p($\theta$) 10 different angles, magnetic spectrograph.

### $^{121}$Te Levels

| E(level) | L | $C^2S$[†] | E(level) | L | $C^2S$[†] | E(level) | L | $C^2S$[†] | E(level) | L | $C^2S$[†] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0 | 0.58 | 1338 *6* | (2,3) | 0.06,0.08 | 1993 *6* | | | 2604 *6* | | |
| 211 *6* | 2 | 1.3 | 1362 *6* | (2) | 0.06 | 2049 *6* | 1 | 0.06 | 2725 *6* | | |
| 293 *6* | 5 | 2.4 | 1404 *6* | 1 | 0.02 | 2082 *6* | (3) | 0.14 | 2857 *6* | | |
| 442 *6* | | | 1486 *6* | | | 2111 *6* | 1 | 0.04 | 2896 *6* | | |
| 475 *6* | 2 | 0.50 | 1516 *6* | | | 2146 *6* | (2,3) | 0.09,0.16 | 2933 *6* | | |
| 533 *6* | 2 | 0.50 | 1551 *6* | | | 2182 *6* | | | 2966 *6* | (1) | 0.10 |
| 593 *6* | | | 1579 *6* | | | 2252 *6* | | | 3027 *6* | | |
| 681 *6* | 0 | 0.11 | 1627 *6* | | | 2280 *6* | | | 3057 *6* | | |
| 809 *6* | 2 | 0.19 | 1683 *6* | | | 2343 *6* | 2 | 0.10 | 3432 *6* | | |
| 923 *6* | | | 1728 *6* | | | 2376 *6* | 2 | 0.09 | 3461 *6* | | |
| 1017 *6* | | | 1750 *6* | | | 2416 *6* | | | 3496 *6* | | |
| 1148 *6* | 2 | 0.17 | 1804 *6* | 1 | 0.12 | 2441 *6* | (3) | 0.10 | 3536 *6* | | |
| 1168 *6* | | | 1835 *6* | 2 | | 2486 *6* | (3) | 0.07 | 3613 *6* | | |
| 1254 *6* | 0 | 0.04 | 1869 *6* | | | 2538 *6* | | | 3715 *6* | | |
| 1283 *6* | 1 | 0.04 | 1943 *6* | | | 2568 *6* | | | 3956 *6* | | |

[†] The optical potential employed is a local, surface derivative Saxon-Woods, potential without spin-orbit coupling; the parameter values are from 1963Pe28. Normalization factor is 1.5. DWBA calculation was made by assuming $3s_{1/2}$, $3p_{3/2}$, $2d_{3/2}$ (only for 212 level) and $2d_{5/2}$, $2f_{7/2}$, $1h_{11/2}$ single particle orbit for L=0, 1, 2, 3, 5 transfer, respectively.