

Table 4.16 from (1992TI02): Measurements and summaries (S) of cross sections $\sigma(\theta)$, analyzing powers $A(\theta)$, polarizations $P(\theta)$, and transfer coefficients for ${}^3\text{He}(\text{d}, \text{p}){}^4\text{He}$

| E_d (MeV) | Measurement | $\theta_{\text{c.m.}}$ (deg) | Description | Refs. |
|------------------------|--|------------------------------|---|-------------|
| 11.99, 2.81, 3.94, 6.0 | P | 5.7 – 148.5 | Legendre polynomial fits. Contour map. | 1973CL13 |
| 4 – 14 | $K_y^{y'}, K_{yz}^{x'}$ | 0 | Compared with ${}^3\text{H}(\text{d}, \text{n})$ results and R -matrix parameterization. | 1973HA51 |
| 8.0 | $P^{y'}, K_x^{x'}, K_y^{y'}, K_z^{z'}, K_{xx}^{y'}, K_{yy}^{y'}, K_{zz}^{y'}, K_{xz}^{y'}$ | 15, 30, 45, 60 | Compared with ${}^3\text{H}(\text{d}, \text{n})$ results and R -matrix parameterization. | 1973HA51 |
| 12 | Left-right asymmetry | 20 – 130 | Polarized ${}^3\text{He}$ target. | 1974BE67 |
| 0.344, 0.065, 0.727 | $iT_{11}, T_{20}, T_{21}, T_{22}$ | 25 – 160 | Polynomial fit. Tabulates coefficients. | 1974GA21 |
| 10.0 | $\sigma(\theta)$ | 120 – 168 (lab) | Accuracy < 1%. | 1974JA15 |
| 6.6 – 15.8 | A_{zz} | 0 | Studied reaction as \vec{d} polarization analyzer. | 1974TR02 |
| 0.34 – 11.60 | T_{20} | 0 | Absolute calibration. | 1976SC15 |
| 9.28 | A_{yy} | 23.6 | Found maximum $A_{yy} = 1$. | 1976GR08 |
| 8.5 – 10.5 | A_y, A_{yy} | 12 – 32 | Found maximum $A_{yy} = 1$. | 1976GR10 |
| 6.44 | iT_{11} | 29 | Presented absolute standard for d induced vector analyzing powers. | 1977ST06 |
| 0.24 – 6.75 | A_{zz} | 0 | Compared A_{zz} for ${}^3\text{He}(\text{d}, \text{p})$, ${}^3\text{H}(\text{d}, \text{n})$. | 1980DR01 |
| 3 – 6.75 | T_{20} | 0 | Discussed consistency of absolute calibration data below 6.75 MeV. | 1980GR14 |
| 15 – 40 | $\sigma(\theta), iT_{11}$ | 15 – 165 | Polynomial expansion, DWBA analysis. | 1981RO13 |
| 4 – 12 | P_z, P_{zz} | | Described design, calibration and performance of \vec{d} polarimeter. | 1982GR25 |
| 1 – 30 | $\sigma(E_d, \theta), iT_{11}, T_{20}, T_{21}, T_{22}, A_y, A_{yy}, A_{xx}$ | | Reviewed polarization measurements $A = 4 - 6$. | 1987GR08(S) |
| 15 – 100 | $iT_{11}, T_{20}, T_{21}, T_{22}$ | | Discussed design construction and calibration of high efficiency \vec{d} polarimeter. | 1987GR30 |
| 0.0695 – 0.1418 | $\sigma(E_d, \theta)$ | | Windowless gas target, deduced $S(E)$. | 1987KR18 |
| 0.0059 – 0.0416 | $\sigma(E_d)$ | | Measured ${}^3\text{He}(\text{d}, \text{p})$ and ${}^2\text{H}({}^3\text{He}, \text{p})$, studied effects of electron screening. | 1988EN03 |
| 9.25 – 19.0 | Polarimeter analyzing power | | Developed polarimeter based on ${}^3\text{He}(\text{d}, \text{p})$. | 1988SA40 |
| 10 – 16 | $A_y, A_{yy}, A_{xz}, A_{zz}$ | 0, 25 | Described polarimeter based on ${}^3\text{He}(\text{d}, \text{p})$. | 1989AB17 |
| 0.006 – 0.042 | $\sigma(E_d)$ | | Studied effect of electron screening. | 1989SC10 |
| 1 – 13 | $iT_{11}, T_{20}, T_{21}, T_{22}$ | 10 – 170 | High-precision measurement. | 1990BI13 |