

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