

Table 4.6 from (1992TI02): Measurements and summaries (S) of cross sections, polarizations, and polarization transfers for ${}^2\text{H}(\text{d}, \text{p}){}^3\text{H}$

E_p (MeV)	Measurement	$\theta_{\text{c.m.}}$ (deg)	Description	Refs.
7.1, 9.8	$A_y^y, A_{xz}^y, A_{zz}^0$	0	Studied reaction mechanism.	1972DU18
3.0 – 11.5	$\sigma(\theta), iT_{11}, T_{20}, T_{21}, T_{22}$	7.5 – 160	Looked for ${}^4\text{He}$ resonance.	1972GR28
1.96 – 6.20	$\sigma(E, \theta)$	10 – 150	Sought improved accuracy, absolute σ .	1972SC28
6 – 15	$K_y^{y'}, K_{yz}^{x'}$	0	Compared with (d, n) (six energies).	1973CL05
0.3 – 0.7	$\sigma(E, E_p, \theta), \sigma(E, E_{3\text{He}}, \theta)$	20 – 160	Detected all charged particles. Compared with (d, n), looked for ${}^4\text{He}$ state.	1973YI01
10	$P_y^{y'}, K_x^{x'}, K_y^{y'}, K_z^{x'}, K_{xx}^y, K_{yy}^{y'}, K_{zz}^{y'}, K_{xz}^{y'}$	21 – 82	Cooled ${}^2\text{H}$ target; He polarimeter.	1974GR30
0.09 – 0.190	Tensor analyzing power versus E_d		Explored anomaly near $E_d = 100$ keV.	1974GU22
13.6	$\sigma(E_d, \theta)$	20.9 – 146	Accurate to $<1\%$ error.	1974JA15
12	$A_y(E_d, \theta)$		Polynomial fits. Explored possible resonance in ${}^4\text{He}$.	1974NE13
12.6	$A_y(\theta)$		Compared A_y, P_y .	1974ZA06
0.7 – 0.150	$\sigma(E_d, \theta)$	15 – 160	Measured (d, p), (d, n). Looked for ${}^4\text{He}$ state.	1975PO04
50 – 85	$\sigma(E_d, \theta)$	12.5 – 45 (lab)	PWBA analysis.	1978AL26
2.5 – 11.5	$iT_{11}, T_{20}, T_{21}, T_{22}$	20 – 160	Compared (d, p), (d, n). Possible CSB.	1978KO06
13.39, 15.50,	$A_y, A_{xx}, A_{yy}, A_{zx}$	20 – 150	Explored asymmetry about 90° .	1978KO26
17.00			Measured, compared (d, p), (d, n).	1979BR18
0.5 – 5.5	A_{zz}	0	Compared (d, p), (d, n). Explored possible CSB.	1979DR01
4.0 – 13	$iT_{11}, T_{20}, T_{21}, T_{22}$	5 – 160	Compared (d, p), (d, n). Possible CSB.	1979KO23

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E_p (MeV)	Measurement	$\theta_{\text{c.m.}}$ (deg)	Description	Refs.
13.2	$\sigma(\theta)$	12 – 90	DWBA analysis, compared (d, p), (d, n).	1979OK01
300 – 1250	${}^4\text{He}$	0 – 60	Baryon exchange interpretation.	1980BI08
0.120 – 0.5	$\sigma(E_d, E_p)$	90, 135	Information for ion-beam analysis.	1980MO03
0.6 – 0.485	$A_y, A_{zz}, A_{xz}, A_{xx-yy}$	20 – 150 (lab)	Compared (d, p), (d, n). Extrapolated to low E .	1981AD04 1981AD07
1 – 13	$\sigma(E_d, \theta), iT_{11}$	5 – 160 (lab)	Found evidence for levels in ${}^4\text{He}$.	1981GR16
0.02 – 0.117	$\sigma(E_d, \theta)$		Extracted $S(E)$.	1985JA16
0.250 – 0.975	$P^{y'}$	15 – 85 (lab)	Analyzed in term of barrier penetration parameters.	1985KO20
0.125	$S(E)$		Measured $S(E)$, studied H fusion reactions.	1986BR20
1 – 24	$\sigma(E_d, \theta), T(\theta), A(\theta)$		Reviewed new pol. observables, evidence for levels in ${}^4\text{He}$.	1987GR08(S)
0.975	$P^{y'}$	15 – 100	Precision measurements. Compared with (d, n) to examine CSB.	1987KO22
0.0298 – 0.1625	$\sigma(E_d, \theta)$		Windowless gas target. Deduced $S(E)$.	1987KR18
0.02 – 0.117	$\sigma(E, \theta)$	20 – 130	2.0% accuracy. R -matrix analysis.	1990BR04