

Table 4.5 from (1992TI02): Measurements and summaries (S) of cross sections $\sigma(\theta)$ and analyzing powers $A(\theta)$ for ${}^2\text{H}(\text{d}, \text{n}){}^3\text{He}$

E_{d} (MeV)	Measurement	$\theta_{\text{c.m.}}$ (deg)	Description	Refs.
11.4	iT_{11}	10 – 140	Compared with ${}^2\text{H}(\text{d}, \text{p}){}^3\text{H}$ to check charge symmetry.	1972BL02
12, 14, 16, 18	$\sigma(\theta), \sigma(E_{\text{n}}, 0^\circ)$	0 – 65	Looked for evidence of resonances in ${}^4\text{He}$.	1972DI05
10.8	P_{n}	35 – 60		1972DU02
10.0, 11.5	$iT_{11}, T_{20}, T_{21}, T_{22}$	95 – 156	Looked for excited states in ${}^4\text{He}$.	1972GR28
16, 18, 20, 22	P_{n}	45	Discussed usefulness of reaction for polarized n source.	1972HA49
1.96 – 6.2	$\sigma(E, \theta)$	0 – 15, 0 – 180	${}^2\text{H}(\text{d}, \text{n}){}^3\text{He}$, t.o.f. Measured ${}^2\text{H}(\text{d}, {}^3\text{He})\text{n}$.	1972SC28
0.87 – 5.00	P_{n}	10 – 150	Compared with ${}^2\text{H}(\text{d}, \text{p}){}^3\text{H}$.	1972SM04
6, 8, 10, 12, 14	P_{n}	10 – 90		1972SP05
0.3 – 0.9	P_{n}	46	Studied polarimeter errors.	1973DA15
3.3 – 14.9	K_{z}	0	Studied use of ${}^2\text{H}(\vec{\text{d}}, \vec{\text{n}})$ as reaction source.	1973SA20
18.6	$\sigma(E_{\text{d}}, E_{\text{n}})$	3.5 – 32	Studied use of reaction as high intensity n source.	1973WE19
0.3 – 0.7	$\sigma(E, E_{3\text{He}}, \theta)$	20 – 160	Measured relative ${}^2\text{H}(\text{d}, \text{n}), {}^2\text{H}(\text{d}, \text{p})$ cross sections.	1973YI01
13.9 – 15.25	$\sigma(E_{\text{d}}, E_{\text{n}}, \theta)$	0 – 130		1975AZ02
1.1 – 5.45	P_{n}	27 – 105		1975GA07
1 – 15	$K_{\text{y}}', A_{\text{zz}}$	0	Provided observables needed for use of ${}^2\text{H}(\vec{\text{d}}, \vec{\text{n}})$ as source reaction.	1975LI08
0.07 – 0.15	$\sigma(E, \theta)$	15 – 165	No evidence for resonance near dd threshold.	1975PO04
0.052 – 0.692	P_{n}	52 – 53	Used new type of He recoil polarimeter.	1975SI16
2.44	P_{n}	45, 55	Agreed with (1975GA07).	1976TO03
0.035 – 0.275	P_{n}	45	No evidence for resonance at 100 keV.	1977AL08
50 – 85	$\sigma(\theta)$	12.5–45	Measured ${}^2\text{H}(\text{d}, \text{n})$ and ${}^2\text{H}(\text{d}, \text{p})$.	1978AL26

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E_{d} (MeV)	Measurement	$\theta_{\text{c.m.}}$ (deg)	Description	Refs.
6 – 17	$\sigma(\theta)$	$\approx 0 - 180$	Established absolute scale for $\sigma(\theta)$ by calibrated t.o.f. system.	1978DR08(S)
2.5 – 11.5	$iT_{11}, T_{20}, T_{21}, T_{22}$	20 – 160	Measured for ${}^2\text{H}(\text{d}, \text{n}), {}^2\text{H}(\text{d}, \text{p})$. Reported differences.	1978KO06
15.5, 17.0	$A_y, A_{\text{xx}}, A_{\text{yy}}, A_{\text{xz}}$	70 – 130	Measured ${}^2\text{H}(\text{d}, \text{n})$ and ${}^2\text{H}(\text{d}, \text{p})$.	1979BR18
0.5 – 5.5	$A_{\text{zz}}, A_y, A_{\text{zz}}, A_{\text{xz}}, A_{\text{xx-yy}}$	0, 0 – 160	Compared with ${}^2\text{H}(\text{d}, \text{p})$. Found differences.	1979DR01
0.100 – 0.500	P_{n}	45 – 130	Used improved small angle Mott-Schwinger scattering Polarimeter.	1979GA05
13.6, 24.3	$\sigma(\theta)$	0	Used gas target proton recoil telescope.	1979GO21
4 – 13	$iT_{11}, T_{20}, T_{21}, T_{22}$	wide range	Measured for ${}^2\text{H}(\text{d}, \text{n}), {}^2\text{H}(\text{d}, \text{p})$. Report evidence for CS violation.	1979KO23
300 – 1250	$\sigma(E_{\text{d}}, \theta)$	0 – 60	Phenomenological analysis of baryonic exchange mechanism.	1980BI08
10	$K_y^y, K_x^x, K_x^z, K_z^x, K_z^z, K_{yy}^y, A_y, A_{\text{xx}}, A_{\text{yy}}, A_{\text{zz}}$	0 – 180		1974SA07
0.290 – 0.460	P_{n}	24.5 – 90		1980GA03
18 – 26	$\sigma(E_{\text{d}}, \theta)$	20 – 90	Detected recoils.	1980JO07
0.06 – 0.485	$A_y, A_{\text{zz}}, A_{\text{xz}}, A_{\text{xx-yy}}$	20 – 150	Detected recoils. Studied ${}^2\text{H}(\text{d}, \text{n})$ and ${}^2\text{H}(\text{d}, \text{p})$.	1981AD04
3 – 6	$\sigma(\theta)$	0	Used Proton recoil telescope.	1981PA26
8.0	P_{n}	0 – 20	Measured $P_{\text{n}}(\theta)$ at small angles to explore properties of reaction for source of polarized neutrons.	1981TO15
6.4, 8.03	$\sigma(\theta)$	0	Reported technique to correct for background from breakup neutrons.	1982GR26
5.5 – 11.5	A_y	0 – 150		1983GU03
0.14	$\sigma(E_{\text{d}}, E_{\text{n}})$		Used high pressure ${}^3\text{He}$ ion chamber to measure n spectra from ${}^2\text{H}$ plasma.	1984FI04

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E_d (MeV)	Measurement	$\theta_{\text{c.m.}}$ (deg)	Description	Refs.
52	$P_n, A_y, K_y^{y'}$	60 – 160	Used NE213 and t.o.f. simultaneously.	1984KL05
11	$\sigma(E_d, E_n)$			1986AN32
0.125	$S(E)$, anisotropy versus E			1986BR20
18	P_n	0 – 85.4	Used liquid ${}^4\text{He}$ as scintillator in n polarimeter for $E_n = 3 - 18$ MeV.	1987IE02
0.0298 – 0.1625	$\sigma(E, \theta)$		Used windowless gas target. Deduced $S(E)$.	1987KR18
0.001 – 19	$\sigma(E_n, \theta)$	0, 90	Studied background problems.	1989BO41
0.02 – 0.117	$\sigma(E, \theta)$	20 – 130	2.0% accuracy. R -matrix analysis.	1990BR04
18	P_n	15 – 75		