

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

$E_{\text{d}}$ (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	$P_{\text{n}}$	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	$P_{\text{n}}$	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	$P_{\text{n}}$	10 – 150	Compared with ${}^2\text{H}(\text{d}, \text{p}){}^3\text{H}$ .	1972SM04
6, 8, 10, 12, 14	$P_{\text{n}}$	10 – 90		1972SP05
0.3 – 0.9	$P_{\text{n}}$	46	Studied polarimeter errors.	1973DA15
3.3 – 14.9	$K_{\text{z}}^{\text{z}}$	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	$P_{\text{n}}$	27 – 105		1975GA07
1 – 15	$K_{\text{y}}^{\text{y}'}, A_{\text{zz}}$	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	$P_{\text{n}}$	52 – 53	Used new type of He recoil polarimeter.	1975SI16
2.44	$P_{\text{n}}$	45, 55	Agreed with (1975GA07).	1976TO03
0.035 – 0.275	$P_{\text{n}}$	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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$E_{\text{d}}$ (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.	<a href="#">1978DR08(S)</a>
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.	<a href="#">1978KO06</a>
15.5, 17.0	$A_y, A_{xx}, A_{yy}, A_{xz}$	70 – 130	Measured ${}^2\text{H}(\text{d}, \text{n})$ and ${}^2\text{H}(\text{d}, \text{p})$ .	<a href="#">1979BR18</a>
0.5 – 5.5	$A_{zz}, A_y, A_{zz}, A_{xz}, A_{xx-yy}$	0, 0 – 160	Compared with ${}^2\text{H}(\text{d}, \text{p})$ . Found differences.	<a href="#">1979DR01</a>
0.100 – 0.500	$P_{\text{n}}$	45 – 130	Used improved small angle Mott-Schwinger scattering Polarimeter.	<a href="#">1979GA05</a>
13.6, 24.3	$\sigma(\theta)$	0	Used gas target proton recoil telescope.	<a href="#">1979GO21</a>
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.	<a href="#">1979KO23</a>
300 – 1250	$\sigma(E_{\text{d}}, \theta)$	0 – 60	Phenomenological analysis of baryonic exchange mechanism.	<a href="#">1980BI08</a>
10	$K_y^y, K_x^x, K_x^z, K_z^x, K_z^z, K_{yy}^y, A_y, A_{xx}, A_{yy}, A_{zz}$	0 – 180		<a href="#">1974SA07</a>
0.290 – 0.460	$P_{\text{n}}$	24.5 – 90		<a href="#">1980GA03</a>
18 – 26	$\sigma(E_{\text{d}}, \theta)$	20 – 90	Detected recoils.	<a href="#">1980JO07</a>
0.06 – 0.485	$A_y, A_{zz}, A_{xz}, A_{xx-yy}$	20 – 150	Detected recoils. Studied ${}^2\text{H}(\text{d}, \text{n})$ and ${}^2\text{H}(\text{d}, \text{p})$ .	<a href="#">1981AD04</a>
3 – 6	$\sigma(\theta)$	0	Used Proton recoil telescope.	<a href="#">1981PA26</a>
8.0	$P_{\text{n}}$	0 – 20	Measured $P_{\text{n}}(\theta)$ at small angles to explore properties of reaction for source of polarized neutrons.	<a href="#">1981TO15</a>
6.4, 8.03	$\sigma(\theta)$	0	Reported technique to correct for background from breakup neutrons.	<a href="#">1982GR26</a>
5.5 – 11.5	$A_y$	0 – 150		<a href="#">1983GU03</a>
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.	<a href="#">1984FI04</a>

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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.	<a href="#">1984KL05</a>
11	$\sigma(E_d, E_n)$			<a href="#">1986AN32</a>
0.125	$S(E)$ , anisotropy versus $E$			<a href="#">1986BR20</a>
18	$P_n$	0 – 85.4	Used liquid ${}^4\text{He}$ as scintillator in n polarimeter for $E_n = 3 - 18$ MeV.	<a href="#">1987IE02</a>
0.0298 – 0.1625	$\sigma(E, \theta)$		Used windowless gas target. Deduced $S(E)$ .	<a href="#">1987KR18</a>
0.001 – 19	$\sigma(E_n, \theta)$	0, 90	Studied background problems.	<a href="#">1989BO41</a>
0.02 – 0.117	$\sigma(E, \theta)$	20 – 130	2.0% accuracy. $R$ -matrix analysis.	<a href="#">1990BR04</a>
18	$P_n$	15 – 75		