

Table 3.11 from (1987TI07): Measurements and summaries (S) of cross sections and analyzing powers for ${}^2\text{H}(p, n)p_1p_2$, ${}^2\text{H}(p, pn)p$, and ${}^1\text{H}(d, 2p)n$

E_p (MeV)	Particles detected	Geometry	Description ^a	Refs.
3.82, 4.02, 4.49, 5.0 $E_d = 7.120$, 7.263 7.333, 7.405	p_1, p_2 (coinc)	coplanar	Measured pn correlation spectra	1981SL01
6.4, 10, 15.9, 19.9, 25.8	p_1, p_2 (coinc)	coplanar	Studied p, n FSI. Measured 9 angular combinations at each E_p . Measured σ along whole kinematic curve.	1978DO04
7, 8.5, 10 $E_d = 7.2$, 7.5	p_1, p_2 (coinc) p_1, p_2 (coinc)	coplanar, non-coplanar coplanar	Measured absolute cross section.	1975KU13 1986NA12
8 – 12 $\Delta E = 0.5$	p_1, p_2 or p, n (coinc)	coplanar	Conditions chosen for near-zero relative np energy to study np FSI.	1976PL01
8.5	p_1, p_2	coplanar	Conditions chosen for zero relative np energy. Studied FSI.	1977GU13
9.5	n	$\theta_n = 15 - 135^\circ$ $\Delta\theta = 15^\circ$	Measured relative neutron yield of ${}^2\text{H}(p, n)$, ${}^3\text{H}(pn)$.	1975MO36
10	p_1, p_2 (coinc)	coplanar and non-coplanar	Measured precise absolute cross sections, to check form-factor dependence.	1974EB01
10.0, 14.1	p_1, p_2 (coinc)	coplanar	Measured $\sigma(\theta)$, $A(\theta)$ Geometry chosen for FSI and collinear config. in cm. Searched for 3BF effects.	1986RA2A 1985KA08 1986PA2A
10.6 – 15.1 15.1 (pol)	n	0°	Measured transverse polarization transfer coefficient $K_y^{y'}$.	1980LI03
15	p_1, p_2 (coinc)	non-coplanar	Measured along a kinematical locus sensitive to type of NN interaction.	1978DU11
16 (pol d)	p	$\theta_p = 15.0^\circ - 42.5^\circ$ (lab)	Measured ${}^1\text{H}(d,p)pn$ analyzing-powers $A_y, A_{xx}, A_{yy}, A_{xz}$ versus	1981CO07

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E_p (MeV)	Particles detected	Geometry	Description ^a	Refs.
20.4 (pol)	n	$\theta_n = 18^\circ$	angle and excitation energy in residual pn system. Measured transverse pol. transfer coeff. $K_y^{y'}$ versus E_n .	1975GR24
21	p_1, p_2	$\theta(\text{lab}) = 75^\circ$	Measured vector analyzing power.	1978SA2A
22.7 (pol)	p_1, p_2	coplanar symmetric configuration	Measured analyzing power.	1980FO10
23	p_1, p_2 (coinc)	coplanar	Measured at several quasifree angles. Enhances QFS-FSI interference.	1974PE02
23	p_1, p_2 (coinc)	coplanar	Conditions chosen for collinearity of p_1, p_2 , in cm system.	1976LA01
23.0 39.5	p_1, p_2 (coinc)	non-coplanar	Measured cross sections on two types of constant-relative-energy loci.	1979BO19
25.7	p_1, p_2 (coinc)	coplanar	Chose kinematic conditions far from two-body enhancements to study sensitivity to higher partial-wave components.	1982SV01
28.6	p_1, p_2	coplanar	Made measurements in collinear and non-collinear geometry. looked for collinearity enhancement.	1979BI07
29.4, 39.2, 49.5	n	0°	Measured 0° neutron production cross section versus neutron energy.	1976RO10
39.5	p_1, p_2 (coinc)	coplanar	Measured along const NN relative energy loci.	1975MC04
44.9	p_1, p_2 (coinc)	non-coplanar	Studied dependence of cross section on kinematic variables of undetected n.	1974SH02
44.9	p_1, p_2	coplanar	Kinematic conditions included	1976HA45

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E_p (MeV)	Particles detected	Geometry	Description ^a	Refs.
	(coinc)	non-coplanar	QFS region and regions far from QFS. Studied sensitivity to on-shell and off-shell aspects of potential models.	
50	n	20°(lab)	Measured neutron polarization versus neutron energy.	1978LE10
50	p_1, p_2 (coinc)	non-coplanar	Used multidetector array to cover 85% of kinematical phase space. Studied quasi-two-body reaction mechanisms.	1981BL09
58.5	p_1, p_2 (coinc)	coplanar	Studied off energy-shell effects.	1974DU03
65 (pol)	p_1, p_2 (coinc)	coplanar	Measured analyzing power $A(\theta_1, \theta_2)$. Studied pp and pn QFS.	1982SH07
65, 85, 100	p_1, p_2 or p_1, n (coinc)	coplanar	Angles chosen to enhance pp or pn QFS or pn FSI.	1974CH30
156	p_1, p_2 or p_1, n (coinc)	coplanar	Studied genl behavior of (p, 2p), (p, pn), also pp, pn QFS and pn FSI or FSI.	1974DI09
156	p_1, p_2 or (coinc)	coplanar	Kinematic conditions for collinear p_1, p_2 , in cm. Also neighboring kinematic conditions.	1977FU01
156	p_1, p_2 (coinc)	coplanar	Kinematic conditions chosen for collinear nucleons in cm. Also measured for neighboring kinematic conditions.	1977YU01
400	p_1, p_2 or p_1, n (coinc)	coplanar	Geometry chosen to study QFS proton and neutron knockout.	1979JA20
585	p_1, p_2 (coinc)	coplanar	Studied np FSI and QFS, ${}^2\text{H}$ momentum distribution.	1975WI29
585, 800	p_1, p_2, n (coinc)	coplanar	Studied (p, 2p) and (p, pn). QFS observed over spectator	1976FE05

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E_p (MeV)	Particles detected	Geometry	Description ^a	Refs.
585, 800	p_1, p_2 (coinc)	coplanar	momentum range 0 – 350 MeV/c. Conditions chosen for small np relative momentum. Studied FSI.	1977FE06
800 (pol)	n	0°	Measured polarization transfer coefficient K_{NN}, K_{LL} .	1981RI06
800	n	$133^\circ(\text{cm})$	Measured neutron polarization to compare with n(pol) + p analyzing power. Test of time reversal invariance.	1982BH01
800	$p_1, p_2; p_1, n$ (coinc)	coplanar	Measured p(pol) + p and p(pol) + n cross sections and analyzing power A_y versus angle.	1983BA05

^a FSI denotes final-state interaction, QFS denotes quasifree scattering.