

Table 3.12 from (1987TI07): Measurements and summaries (S) of differential cross sections and polarization observables in  ${}^2\text{H}(p, p){}^2\text{H}$  scattering

$E_p$ (MeV) (or $E_d$ (MeV)) <sup>a</sup>	$\theta_p$ (deg) ( $\theta_d$ (deg)) <sup>a</sup>	Quantity measured	Refs.
0.4 – 1	44.5 – 149.2	$\sigma(E, \theta), A_y(E, \theta)$	1983HU07 (S)
2.5 – 6.5	15 – 170	$A_y(\theta)$	1979WH01
3 – 13 <sup>a</sup>	22.6 – 165 <sup>a</sup>	$iT_{11}(\theta), T_{2q}(\theta)$	1979WH01
3.14, 3.74 <sup>b</sup>	20 – 150	$\sigma(\theta)$	1980LA19
6.8 <sup>b</sup>	29.9 – 120	$\sigma(\theta)$	1977BO40
8.5 – 22.7	30 – 160	$\sigma(E, \theta), A_y(E, \theta)$	1983GR05
8.5, 10, 12, 17, 20, 24	30 – 160	$\sigma(\theta), A(\theta)$ $iT_{11}(\theta), T_{20}(\theta), T_{22}(\theta)$	1978GR23
10	30 – 120	pol. transfer coefficients	1981SP05
10	92 – 180	pol. transfer coefficients	1982SP03
10	30 – 160	$A(\theta)$	1978GR04
11.1	15 – 160	$\sigma(E, \theta), A_y(E, \theta)$	1983SA05
17 – 22 <sup>a</sup>	15 – 160 <sup>a</sup>	$iT_{11}(\theta), T_{2q}(\theta)$	
14.1	30 – 150	$A_y(\theta)$	1978DU2B
17 – 45.4 <sup>a</sup>	30 – 160 <sup>a</sup>	$iT_{11}(E, \theta), A_{yy}(E, \theta), A_{xx}(E, \theta)$	1983GR05
20 <sup>a</sup>	30 – 160 <sup>a</sup>	$iT_{11}(\theta), T_{2q}(\theta)$	1978GR04
35.0, 46.3	90 – 170	$\sigma(\theta)$	1974BR13
48.5 <sup>b</sup>	120 – 140	$\sigma(\theta)$	1983GR14
50	10 – 160	$A_y(\theta)$	1977KI09
60	30 – 104	pol. transfer coefficients	1980SP08
64.8	8 – 169	$\sigma(\theta), A(\theta)$	1982SH13
185 <sup>b</sup>	4.1 – 51	$\sigma(\theta)$	1974GU25
316, 516	100 – 170	$A_y(\theta)$	1978AN06 (S)
0.4, 0.8, 1.0 GeV	155 – 175	$T_{20}$	1979IG02
600 <sup>b</sup>	$-t = 0.003 - 0.029$ <sup>c</sup>	$\sigma(\theta)$	1976FA09
0.6 – 2.7 GeV	158 – 180	$\sigma(E)$	1982BE30
630 <sup>b</sup>	80 – 158	$\sigma(\theta)$	1978MU16
0.68 – 1.53 GeV	93 – 172	$A(\theta)$	1978BI2B
796	4.53 – 13.02 <sup>d</sup>	$\sigma(\theta), A_y(\theta)$	1983IR03
800	14.1 – 153.6	$\sigma(\theta), A_y(\theta)$	1980WI07 (S)
800	22 <sup>d</sup>	$iT_{11}(\theta)$	1981BR21

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$E_p$ (MeV) (or $E_d$ (MeV)) <sup>a</sup>	$\theta_p$ (deg) ( $\theta_d$ (deg)) <sup>a</sup>	Quantity measured	Refs.
800	$-t = 0.006 - 0.46$ <sup>c</sup>	spin rotation parameters	<a href="#">1983WEZV</a>
1 GeV		$P(\theta)$	<a href="#">1982AL18</a>
1.6 GeV <sup>a</sup>	$-t = 0.032 - 1.038$ <sup>c</sup>	deuteron vector and	<a href="#">1981BL13</a>
2 GeV <sup>a</sup>	$-t = 0.05 - 1.2$ <sup>c</sup>	tensor asymmetries	<a href="#">1979BL08</a>
$P_d = 3.4 - 6.6$ GeV/ $c$ <sup>e</sup>	60 - 175 <sup>a</sup>	$\sigma(\theta)$	<a href="#">1974DU2C</a>
17.4 - 26.1 <sup>a</sup>	67.1 - 121.4	$C_{xx}, C_{yy}, S$	<a href="#">1975CH19</a>

<sup>a</sup> Deuteron energies and angles for reaction  ${}^1\text{H}(d, d){}^1\text{H}$ .

<sup>b</sup> Unpolarized protons.

<sup>c</sup>  $-t$  is the square of the momentum transfer, (GeV/ $c$ )<sup>2</sup>.

<sup>d</sup> Laboratory angles.

<sup>e</sup> Incident deuteron momentum  $P_d$ .