

Table 3.6 from (1987TI07): Measurements and summaries (S)  
of cross section  $\sigma(\theta)$  and analyzing powers  $A(\theta)$  for  ${}^2\text{H}(p, \pi^+){}^3\text{H}$

$E_p$ (MeV)	Measurement	$\theta$ (deg)(cm)	Refs.
277	$A(\theta)$	70 – 130	<a href="#">1984LO08 (S)</a>
500		137.5, 148.9	
305	$A(\theta)$	68 – 145.5	<a href="#">1982LO17</a>
330			
375			
400			
400	$\sigma(\theta), A(\theta)$	120 – 160 (lab)	<a href="#">1980AU07</a>
425		$\Delta\theta = 10$	
443			
470			
410	$\sigma(\theta)$	5, 15, 25, 43 (lab)	<a href="#">1977AS06</a>
605		5, 15, 25, 32, 45, 65 (lab)	
809		5, 10.7, 19 (lab)	
425	$\sigma(\theta), A(\theta)$	110 – 160	<a href="#">1984AB2A</a>
450			
475			
500			
470	$\sigma(\theta)$	10 – 160	
500	$\sigma(\theta)$	10 – 160	<a href="#">1981CA08</a>
500	$A(\theta)$	70 – 152	
470	$\sigma(\theta)$	37 – 160	<a href="#">1973DO17</a>
590			
500	$\sigma(\theta)$ <sup>a</sup>	$\approx 48, 98$	<a href="#">1985SI21</a>
585	$\sigma(E_\pi, \theta)$	22.5 – 135 (lab)	<a href="#">1980CR03</a>
	$P(E_\pi, \theta)$ <sup>b</sup>	45 (lab)	
600 – 1500	$\sigma(\theta)$	$\approx 180$	<a href="#">1985BE46</a>
650, 800	$\sigma(\theta), A(\theta)$	$\approx 10 – 170$	<a href="#">1984KI2D</a>
900, 100, 1000	$A(\theta)$	$\approx 10 – 170$	<a href="#">1986MA59</a>

<sup>a</sup> Also measured  ${}^2\text{H}(p, \pi_0){}^3\text{He}$  and formed ratio to compare with isospin invariance predictions.

<sup>b</sup> Asymmetry parameter,  $P = (\sigma(\text{up}) - \sigma(\text{dn})) / (\sigma(\text{up}) + \sigma(\text{dn}))$  for proton beam polarized perpendicular to pion production plane.