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[E710]

## Elastic $\bar{p}p$ Scattering at $\sqrt{s}=1.8$ TeV

The E710 Collaboration

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### Abstract

Numerical values are given for the data we have presented graphically in recently published letters.

The E-710 Collaboration recently published<sup>(1,2)</sup> a measurement of  $\bar{p}p$  elastic scattering at  $\sqrt{s} = 1.8$  TeV over the  $t$  range  $0.034 \leq |t| \leq 0.65$   $(\text{GeV}/c)^2$ ; the data were presented in graphical form. We give here in Table 1 the numerical data from which Figure 2 of Reference 2 was obtained.

Table 1 gives statistical errors only. There is an overall systematic uncertainty in the absolute normalization of  $\pm 9\%$ , from the luminosity determination discussed in Reference 1. In addition, the normalization assumed a value of  $\rho$  of 0.145. For different values of  $\rho$ , the data should be scaled by  $[1 + (0.145)^2] [1 + \rho^2]^{-1}$ .

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REFERENCES

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1. N. A. Amos et al., Physics Letters B 243, 158 (1990)  
There are two typographical errors in this paper. On page 161, column 1, line 20, the number should be  $414082 \pm 3151$ , not  $414082 \pm 31510$ . On page 163, column 1, last line,  $\sigma_{inel}$  should be  $55.5 \pm 2.2$  mb, not  $56.0 \pm 2.2$  mb.
  2. N. A. Amos et al., Physics Letters B 247, 127 (1990)  
There is a typographical error in this paper. In Table 1, second line of the results of fits, the t range should be  $0.10 \leq |t| \leq 0.65$ , not  $0.01 \leq |t| \leq 0.65$ .

TABLE 1

Values of  $d\sigma/dt$ , in mb (GeV/c) $^{-2}$ , given at the  $t$  values of the center of each  $t$  bin. Statistical errors only are given; overall normalization uncertainties are discussed in the text.

$ t $	$d\sigma/dt$	$\pm$
0.0339	160.8	4.2
0.0354	150.7	4.0
0.0369	149.1	4.0
0.0384	147.0	4.0
0.0400	141.5	3.9
0.0417	137.5	3.9
0.0435	130.3	3.7
0.0453	130.3	3.7
0.0472	124.1	3.7
0.0491	119.6	3.6
0.0511	110.6	3.5
0.0532	118.2	3.6
0.0553	112.2	3.5
0.0575	101.7	3.3
0.0597	102.5	3.3
0.0620	95.8	3.2
0.0643	96.6	3.2
0.0667	93.0	3.2
0.0692	90.1	3.1
0.0718	81.3	3.0
0.0744	77.8	2.9
0.0771	77.7	2.9
0.0799	74.7	2.8
0.0827	71.5	2.8
0.103	51.7	1.7
0.114	44.8	1.2
0.126	34.7	1.0
0.139	27.40	0.87
0.152	22.61	0.77
0.167	18.21	0.62
0.182	13.87	0.54
0.197	10.91	0.48
0.213	7.92	0.37
0.230	6.31	0.17
0.247	4.96	0.14
0.265	3.58	0.12
0.284	2.68	0.10
0.303	1.891	0.088
0.323	1.399	0.075
0.343	0.994	0.088
0.365	0.671	0.073
0.387	0.510	0.073
0.409	0.427	0.067

0.433	0.254	0.052
0.456	0.169	0.042
0.481	0.106	0.033
0.506	0.068	0.027
0.531	0.047	0.022
0.558	0.021	0.015
0.585	0.0101	0.0072
0.627	0.011	0.011