

**Table 1.** Input data used in the reanalysis [1] (the rows marked with asterisks were excluded). Set 1 corresponds to the measurement [2, 3], while Sets 2 and 3 are the data obtained in the experiment [4, 5] using the 8 and 1.6 GeV spectrometers, respectively.

Set	$Q^2$ (GeV <sup>2</sup> )	$\varepsilon$	$E_1$ (GeV)	$\theta$ (deg)	$W_{\text{cut}}^2$ (GeV <sup>2</sup> )	$t_i$ (%)	$t_f$ (%)	$\delta_{\text{int}}$	$\delta'_{\text{int}}$	$\delta_{\text{ext}}$	$d\sigma_0/d\Omega$ (nb/sr)	$\Delta_{\text{stat}}$ (%)	$\Delta_{\text{syst}}$ (%)	$\Delta_{\text{norm}}$ (%)
1	1.000	0.692	1.594	45.507	0.973	1.54	1.54	-0.1637	0.0179	-0.1147	$5.267 \times 10^{+0}$	0.80	0.50	1.90
1	1.000	0.869	2.403	27.564	1.010	1.54	1.79	-0.1680	0.0175	-0.1307	$1.780 \times 10^{+1}$	0.91	0.50	1.90
1	1.000	0.930	3.238	19.740	1.050	1.54	2.06	-0.1699	0.0172	-0.1442	$3.951 \times 10^{+1}$	0.86	0.50	1.90
1	2.003	0.635	2.408	46.675	1.013	1.54	1.53	-0.1769	0.0244	-0.1100	$4.436 \times 10^{-1}$	0.92	0.50	1.90
1	2.003	0.735	2.800	37.756	1.036	1.54	1.63	-0.1763	0.0242	-0.1161	$7.797 \times 10^{-1}$	0.75	0.50	1.90
1	2.003	0.808	3.250	31.097	1.057	1.54	1.75	-0.1777	0.0237	-0.1233	$1.288 \times 10^{+0}$	0.61	0.50	1.90
1	2.003	0.878	4.003	24.109	1.098	1.54	1.90	-0.1773	0.0234	-0.1313	$2.421 \times 10^{+0}$	0.96	0.50	1.90
1	2.003	0.938	5.489	16.800	1.110	1.33	2.16	-0.1961	0.0212	-0.1500	$5.746 \times 10^{+0}$	2.38	0.50	1.90
*1	2.003	0.953	6.237	14.602	1.106	1.33	2.27	-0.2062	0.0203	-0.1625	$8.282 \times 10^{+0}$	1.01	0.50	1.90
*1	2.003	0.963	6.981	12.932	1.102	1.54	2.36	-0.2154	0.0197	-0.1831	$1.109 \times 10^{+1}$	0.95	0.50	1.90
*1	2.003	0.968	7.488	12.001	1.102	1.54	2.40	-0.2204	0.0193	-0.1895	$1.312 \times 10^{+1}$	2.80	0.50	1.90
1	2.497	0.619	2.796	46.234	1.035	1.54	1.53	-0.1799	0.0271	-0.1079	$1.894 \times 10^{-1}$	0.91	0.50	1.90
1	2.497	0.723	3.241	37.310	1.074	1.54	1.63	-0.1738	0.0275	-0.1104	$3.369 \times 10^{-1}$	0.85	0.50	1.90
1	2.497	0.800	3.766	30.531	1.088	1.43	1.74	-0.1798	0.0261	-0.1173	$5.629 \times 10^{-1}$	0.63	0.50	1.90
1	2.497	0.846	4.242	26.276	1.111	1.54	1.85	-0.1808	0.0257	-0.1273	$8.293 \times 10^{-1}$	0.93	0.50	1.90
*1	2.497	0.949	7.054	14.573	1.102	1.54	2.27	-0.2209	0.0213	-0.1786	$3.611 \times 10^{+0}$	0.75	0.50	1.90
*1	2.497	0.963	8.209	12.357	1.103	1.33	2.38	-0.2314	0.0206	-0.1831	$5.431 \times 10^{+0}$	1.79	0.50	1.90
1	3.007	0.623	3.251	44.263	1.062	1.54	1.57	-0.1818	0.0295	-0.1073	$9.664 \times 10^{-2}$	0.97	0.50	1.90
1	3.007	0.761	4.008	32.709	1.106	1.54	1.70	-0.1810	0.0287	-0.1156	$2.194 \times 10^{-1}$	0.85	0.50	1.90
1	3.007	0.910	6.246	18.814	1.107	1.54	2.08	-0.2142	0.0238	-0.1596	$9.085 \times 10^{-1}$	2.55	0.50	1.90
1	3.007	0.932	7.074	16.306	1.104	1.54	2.17	-0.2243	0.0228	-0.1721	$1.315 \times 10^{+0}$	1.05	0.50	1.90
*1	3.007	0.951	8.233	13.763	1.107	1.33	2.29	-0.2344	0.0221	-0.1768	$2.012 \times 10^{+0}$	2.38	0.50	1.90
2	1.750	0.250	1.509	90.016	0.960	0.93	1.05	-0.1788	0.0232	-0.0713	$1.440 \times 10^{-1}$	0.78	1.06	1.77
2	1.750	0.704	2.401	41.110	1.010	0.93	1.19	-0.1765	0.0225	-0.0802	$1.029 \times 10^{+0}$	0.46	1.06	1.77
2	1.750	0.950	5.503	15.178	1.153	0.93	1.43	-0.1813	0.0212	-0.0957	$1.155 \times 10^{+1}$	0.58	1.06	1.77
2	2.500	0.227	1.967	90.023	0.991	0.93	1.05	-0.1778	0.0302	-0.0651	$3.389 \times 10^{-2}$	1.07	1.06	1.77

**Table 1.** (continued)

2	2.500	0.479	2.403	58.887	1.011	0.93	1.08	-0.1813	0.0277	-0.0709	$9.857 \times 10^{-2}$	0.93	1.06	1.77
2	2.500	0.630	2.833	45.000	1.030	0.93	1.16	-0.1836	0.0265	-0.0769	$1.990 \times 10^{-1}$	0.91	1.06	1.77
2	2.500	0.750	3.398	34.703	1.070	0.93	1.25	-0.1791	0.0265	-0.0804	$3.951 \times 10^{-1}$	0.47	1.06	1.77
2	2.500	0.820	3.950	28.418	1.099	0.93	1.33	-0.1794	0.0261	-0.0848	$6.616 \times 10^{-1}$	0.61	1.06	1.77
2	2.500	0.913	5.500	19.020	1.153	0.93	1.45	-0.1873	0.0245	-0.0950	$1.779 \times 10^{+0}$	0.64	1.06	1.77
2	3.250	0.426	2.835	61.224	1.032	0.93	1.08	-0.1866	0.0316	-0.0685	$2.848 \times 10^{-2}$	1.23	1.06	1.77
2	3.250	0.609	3.401	44.487	1.069	0.93	1.16	-0.1837	0.0305	-0.0736	$6.784 \times 10^{-2}$	0.88	1.06	1.77
2	3.250	0.719	3.950	35.394	1.100	0.93	1.25	-0.1832	0.0297	-0.0785	$1.256 \times 10^{-1}$	0.86	1.06	1.77
2	3.250	0.865	5.506	22.851	1.153	0.93	1.41	-0.1919	0.0273	-0.0917	$3.898 \times 10^{-1}$	0.48	1.06	1.77
2	4.000	0.437	3.397	57.583	1.069	0.93	1.09	-0.1861	0.0355	-0.0662	$1.297 \times 10^{-2}$	1.43	1.06	1.77
2	4.000	0.593	3.950	43.710	1.100	0.93	1.17	-0.1866	0.0335	-0.0720	$2.770 \times 10^{-2}$	1.25	1.06	1.77
2	4.000	0.694	4.507	35.603	1.131	0.93	1.25	-0.1864	0.0325	-0.0771	$4.929 \times 10^{-2}$	1.25	1.06	1.77
2	4.000	0.805	5.508	26.880	1.149	0.93	1.36	-0.1968	0.0298	-0.0881	$1.023 \times 10^{-1}$	0.89	1.06	1.77
2	4.000	0.946	9.804	13.261	1.141	0.93	1.38	-0.2429	0.0242	-0.1125	$6.180 \times 10^{-1}$	0.76	1.06	1.77
2	5.000	0.389	3.950	59.304	1.103	0.93	1.08	-0.1877	0.0406	-0.0628	$4.205 \times 10^{-3}$	2.06	1.06	1.77
2	5.000	0.538	4.508	45.657	1.131	0.93	1.16	-0.1898	0.0375	-0.0695	$8.462 \times 10^{-3}$	1.46	1.06	1.77
2	5.000	0.704	5.507	32.898	1.150	0.93	1.28	-0.2007	0.0333	-0.0820	$2.128 \times 10^{-2}$	1.05	1.06	1.77
2	5.000	0.919	9.798	15.377	1.146	0.93	1.44	-0.2469	0.0262	-0.1139	$1.576 \times 10^{-1}$	1.04	1.06	1.77
2	6.000	0.886	9.801	17.523	1.148	0.93	1.46	-0.2512	0.0280	-0.1137	$4.749 \times 10^{-2}$	1.24	1.06	1.77
2	7.000	0.847	9.806	19.763	1.146	0.93	1.45	-0.2561	0.0295	-0.1122	$1.707 \times 10^{-2}$	2.26	1.06	1.77
3	1.750	0.250	1.509	90.000	0.959	0.94	0.56	-0.1794	0.0231	-0.0498	$1.514 \times 10^{-1}$	0.21	1.12	1.77
3	2.500	0.227	1.967	90.000	0.990	0.94	0.56	-0.1786	0.0300	-0.0443	$3.545 \times 10^{-2}$	0.28	1.12	1.77
3	3.250	0.206	2.403	90.000	1.010	0.94	0.56	-0.1845	0.0346	-0.0421	$1.095 \times 10^{-2}$	0.67	1.12	1.77
3	4.000	0.190	2.835	90.000	1.029	0.94	0.56	-0.1897	0.0388	-0.0403	$4.092 \times 10^{-3}$	0.81	1.12	1.77
3	5.000	0.171	3.398	90.000	1.072	0.94	0.56	-0.1855	0.0476	-0.0348	$1.339 \times 10^{-3}$	0.93	1.12	1.77
3	6.000	0.156	3.950	90.000	1.101	0.94	0.56	-0.1884	0.0536	-0.0321	$5.164 \times 10^{-4}$	1.27	1.12	1.77
3	7.000	0.143	4.508	90.000	1.134	0.94	0.56	-0.1892	0.0604	-0.0289	$2.248 \times 10^{-4}$	2.26	1.12	1.77
3	8.830	0.125	5.507	90.000	1.155	0.94	0.56	-0.2035	0.0649	-0.0287	$6.022 \times 10^{-5}$	3.89	1.12	1.77

## References

- [1] <https://github.com/gramolin/rosenbluth/>
- [2] R. C. Walker *et al.*, “Measurements of the proton elastic form factors for  $1 \leq Q^2 \leq 3 \text{ (GeV/c)}^2$  at SLAC,” [Phys. Rev. D](#) **49**, 5671 (1994).
- [3] R. C. D. Walker, “A measurement of the proton elastic form factors for  $1 \leq Q^2 \leq 3 \text{ (GeV/c)}^2$ ,” Ph.D. thesis, California Institute of Technology (1989).
- [4] L. Andivahis *et al.*, “Measurements of the electric and magnetic form factors of the proton from  $Q^2 = 1.75$  to  $8.83 \text{ (GeV/c)}^2$ ,” [Phys. Rev. D](#) **50**, 5491 (1994).
- [5] L. Clogher, “A precise measurement of the proton elastic form factors for  $1.75 \leq Q^2 \leq 8.83 \text{ (GeV/c)}^2$ ,” Ph.D. thesis, The American University (1993).