Table I. Cross sections per deuteron nucleus for inelastic electron-deuteron scattering near break-up threshold. The beam energy E and relative energy E_{np} are evaluated at the center of the target. The errors include statistical and systematic contributions added in quadrature.

E =0.734 GeV		E =0.843 GeV		E =0.885 GeV		E =0.934 GeV	
E_{np} (MeV)	$d\sigma/d\Omega dE_{np}$ (fb/sr-MeV)	E_{np} (MeV)	$d\sigma/d\Omega dE_{np}$ (fb/sr-MeV)	E_{np} (MeV)	$d\sigma/d\Omega dE_{np}$ (fb/sr-MeV)	E_{np} (MeV)	$d\sigma/d\Omega dE_{np}$ (fb/sr-MeV)
-22.4	0.12 ± 0.29	-25.4	0.01 ± 0.06	-26.6	-0.02 ± 0.03	-27.9	-0.02 ± 0.03
-20.6	0.03 ± 0.29	-23.3	0.01 ± 0.06	-24.4	-0.01 ± 0.04	-25.6	0.00 ± 0.03
-18.7	-0.49 ± 0.25	-21.2	-0.01 ± 0.06	-22.2	-0.07 ± 0.04	-23.3	-0.01 ± 0.03
-16.9	-0.81 ± 0.31	-19.1	-0.05 ± 0.06	-20.0	-0.03 ± 0.04	-20.9	0.01 ± 0.03
-15.1	0.16 ± 0.35	-17.0	0.03 ± 0.07	-17.7	0.03 ± 0.04	-18.6	0.00 ± 0.03
-13.2	-0.32 ± 0.34	-14.9	0.05 ± 0.08	-15.5	-0.04 ± 0.04	-16.2	0.01 ± 0.03
-11.4	-0.18 ± 0.41	-12.8	-0.05 ± 0.07	-13.3	-0.05 ± 0.04	-13.9	0.01 ± 0.03
-9.6	0.27 ± 0.49	-10.7	0.01 ± 0.08	-11.1	-0.08 ± 0.06	-11.6	0.02 ± 0.04
-7.7	0.54 ± 0.59	-8.6	0.00 ± 0.10	-8.9	0.07 ± 0.09	-9.2	0.04 ± 0.04
-5.9	0.52 ± 0.56	-6.4	0.04 ± 0.13	-6.7	0.09 ± 0.10	-6.9	0.09 ± 0.05
-4.1	0.84 ± 0.59	-4.3	0.14 ± 0.14	-4.4	0.32 ± 0.12	-4.6	0.12 ± 0.07
-2.2	2.30 ± 0.64	-2.2	0.52 ± 0.17	-2.2	0.29 ± 0.12	-2.2	0.21 ± 0.08
-0.4	0.53 ± 0.56	-0.1	0.57 ± 0.18	0.0	0.55 ± 0.14	0.1	0.33 ± 0.08
1.4	2.14 ± 0.73	2.0	0.62 ± 0.19	2.2	0.77 ± 0.14	2.4	0.42 ± 0.07
3.3	3.43 ± 0.87	4.1	1.00 ± 0.19	4.4	0.93 ± 0.15	4.8	0.43 ± 0.07
5.1	3.14 ± 1.04	6.2	1.50 ± 0.21	6.6	0.97 ± 0.17	7.1	0.56 ± 0.08
6.9	4.86 ± 1.11	8.3	1.24 ± 0.20	8.8	1.02 ± 0.19	9.4	0.64 ± 0.10
8.8	5.71 ± 1.18	10.4	1.45 ± 0.26	11.1	1.44 ± 0.24	11.8	0.72 ± 0.12
10.6	7.99 ± 1.29	12.5	1.69 ± 0.31	13.3	1.74 ± 0.26	14.1	0.79 ± 0.12
12.4	7.44 ± 1.27	14.6	1.88 ± 0.37	15.5	1.85 ± 0.27	16.5	1.04 ± 0.13
14.3	9.61 ± 1.45	16.7	3.12 ± 0.40	17.7	2.25 ± 0.29	18.8	1.15 ± 0.14
16.1	9.98 ± 1.55	18.9	2.77 ± 0.35	19.9	2.53 ± 0.31	21.1	1.01 ± 0.14
17.9	12.10 ± 1.76	21.0	3.21 ± 0.37	22.1	2.68 ± 0.32	23.5	1.41 ± 0.17
19.8	13.80 ± 1.83	23.1	2.95 ± 0.33	24.3	2.97 ± 0.33	25.8	1.47 ± 0.18
21.6	16.02 ± 1.89	25.2	3.58 ± 0.36	26.6	3.53 ± 0.35	28.1	1.82 ± 0.20
23.5	16.99 ± 1.91	27.3	4.44 ± 0.40	28.8	3.67 ± 0.35	30.5	1.84 ± 0.20

continued

Table I. continued.

E =1.020 GeV		E =1.102 GeV		E =1.201 GeV		E =1.279 GeV	
E_{np} (MeV)	$d\sigma/d\Omega dE_{np}$ (fb/sr-MeV)	E_{np} (MeV	$d\sigma/d\Omega dE_{np}$ (fb/sr-MeV)	E_{np} (MeV)	$d\sigma/d\Omega dE_{np}$ (fb/sr-MeV)	E_{np} (MeV	$d\sigma/d\Omega dE_{np}$ (fb/sr-MeV)
-30.3	0.038 ± 0.012	-32.6	0.001 ± 0.007	-35.3	0.000 ± 0.004	-37.4	-0.002 ± 0.002
-27.7	0.001 ± 0.013	-29.8	0.003 ± 0.008	-32.3	-0.004 ± 0.004	-34.2	-0.005 ± 0.002
-25.2	0.006 ± 0.013	-27.0	0.007 ± 0.010	-29.3	0.007 ± 0.006	-31.0	0.000 ± 0.003
-22.6	-0.006 ± 0.013	-24.3	-0.001 ± 0.009	-26.3	-0.002 ± 0.006	-27.8	-0.003 ± 0.002
-20.1	0.014 ± 0.018	-21.5	0.009 ± 0.009	-23.3	0.013 ± 0.007	-24.6	0.000 ± 0.003
-17.5	0.004 ± 0.016	-18.8	0.026 ± 0.011	-20.3	0.002 ± 0.005	-21.4	0.002 ± 0.004
-15.0	-0.009 ± 0.016	-16.0	-0.002 ± 0.008	-17.3	-0.002 ± 0.005	-18.2	0.003 ± 0.004
-12.4	0.027 ± 0.019	-13.3	0.016 ± 0.012	-14.3	0.016 ± 0.008	-15.0	0.005 ± 0.005
-9.9	0.023 ± 0.021	-10.5	0.019 ± 0.014	-11.2	0.006 ± 0.008	-11.8	0.010 ± 0.005
-7.3	0.055 ± 0.024	-7.7	0.034 ± 0.017	-8.2	0.010 ± 0.009	-8.6	0.004 ± 0.006
-4.8	0.069 ± 0.026	-5.0	0.049 ± 0.019	-5.2	0.036 ± 0.010	-5.4	0.025 ± 0.007
-2.2	0.083 ± 0.032	-2.2	0.068 ± 0.021	-2.2	0.053 ± 0.012	-2.2	0.028 ± 0.008
0.3	0.160 ± 0.040	0.5	0.098 ± 0.024	0.8	0.042 ± 0.011	1.0	0.047 ± 0.009
2.9	0.207 ± 0.041	3.3	0.157 ± 0.026	3.8	0.063 ± 0.013	4.2	0.042 ± 0.008
5.4	0.275 ± 0.047	6.0	0.145 ± 0.026	6.8	0.081 ± 0.014	7.4	0.067 ± 0.010
8.0	0.358 ± 0.054	8.8	0.183 ± 0.029	9.8	0.083 ± 0.016	10.6	0.041 ± 0.009
10.5	0.263 ± 0.054	11.6	0.199 ± 0.031	12.8	0.109 ± 0.018	13.8	0.069 ± 0.011
13.1	0.410 ± 0.065	14.3	0.262 ± 0.038	15.8	0.100 ± 0.017	17.0	0.078 ± 0.011
15.6	0.438 ± 0.067	17.1	0.263 ± 0.038	18.8	0.139 ± 0.020	20.2	0.071 ± 0.011
18.2	0.492 ± 0.066	19.8	0.259 ± 0.038	21.8	0.150 ± 0.020	23.4	0.062 ± 0.011
20.7	0.608 ± 0.074	22.6	0.334 ± 0.041	24.8	0.129 ± 0.022	26.5	0.091 ± 0.014
23.3	0.679 ± 0.074	25.4	0.365 ± 0.047	27.8	0.162 ± 0.024	29.8	0.100 ± 0.015
25.8	0.639 ± 0.074	28.1	0.352 ± 0.051	30.8	0.208 ± 0.027	33.0	0.103 ± 0.015
28.4	0.735 ± 0.076	30.9	0.422 ± 0.050	33.8	0.234 ± 0.028	36.2	0.144 ± 0.017
30.9	0.756 ± 0.076	33.6	0.502 ± 0.056	36.8	0.209 ± 0.027	39.3	0.134 ± 0.016
33.5	0.870 ± 0.077	36.4	0.556 ± 0.059	39.8	0.246 ± 0.029	42.5	0.114 ± 0.015

Table II. Ratio of the inelastic structure functions W_1/W_2 for inelastic electron-deuteron scattering. The relative energy E_{np} in units of MeV is evaluated at the target center, and the errors include both statistical and systematic contributions.

$< Q^2 >$=1.36 (GeV/c)^2		$< Q^2 >$=1.84 (GeV/c)^2		$< Q^2 >$=2.33 (GeV/c)^2	
E_{np}	W_1/W_2	E_{np}	W_1/W_2	E_{np}	W_1/W_2
9.4	0.178 ± 0.024	11.8	0.237 ± 0.035	14.3	0.386 ± 0.071
13.6	0.211 ± 0.027	16.9	0.317 ± 0.047	20.3	0.534 ± 0.094
17.8	0.320 ± 0.060	22.0	0.435 ± 0.068	26.3	0.525 ± 0.103
22.0	0.310 ± 0.061	27.1	0.441 ± 0.071	32.3	0.774 ± 0.147
26.2	0.368 ± 0.075	32.2	0.489 ± 0.077	38.3	0.730 ± 0.132
32.4	0.409 ± 0.065	38.5	0.428 ± 0.082	49.9	0.525 ± 0.129
40.3	0.521 ± 0.071	48.1	0.795 ± 0.113	61.4	0.734 ± 0.145
48.2	0.746 ± 0.089	57.6	0.541 ± 0.080	72.8	0.847 ± 0.147
56.1	0.812 ± 0.092	67.2	0.923 ± 0.115	85.6	0.711 ± 0.118
64.0	0.645 ± 0.073	76.8	0.743 ± 0.093	96.4	0.702 ± 0.106
71.9	0.796 ± 0.085	86.4	0.820 ± 0.097	107.1	0.857 ± 0.117
80.8	0.876 ± 0.114	96.0	0.827 ± 0.108	117.9	1.010 ± 0.130
88.3	0.931 ± 0.109	105.0	0.927 ± 0.108	128.7	0.764 ± 0.098
95.7	0.811 ± 0.095	114.0	0.931 ± 0.105	139.5	1.000 ± 0.120
103.1	0.892 ± 0.101	123.0	0.843 ± 0.094	151.5	0.877 ± 0.150
110.5	0.825 ± 0.094	132.0	0.856 ± 0.093	161.6	0.974 ± 0.140
118.0	0.924 ± 0.102	141.0	0.849 ± 0.090	171.7	1.050 ± 0.150
126.3	0.979 ± 0.122	151.3	1.010 ± 0.130	181.9	0.947 ± 0.130
		159.8	1.110 ± 0.130	192.0	1.040 ± 0.130