TABLE I. Results for A_2 and xg_2 with statistical errors for proton and deuteron at the measured x and Q^2 [GeV^2]. The systematic error on xg_2 is given by $a + bx$ where $a_p(a_d)$= 0.0016(0.0009) and $b_p(b_d)$=$-$0.0012($-$0.0008).

x	$< Q^2 >$	A_2^p	xg_2^p	A_2^d	xg_2^d
		$\theta \approx 2.75°$; E=29.1 GeV			
0.021	0.80	$-0.015\pm$ 0.012	$-0.037\pm$ 0.026	0.003$\pm$ 0.017	0.009$\pm$ 0.036
0.026	0.90	$-0.009\pm$ 0.008	$-0.026\pm$ 0.015	0.010$\pm$ 0.011	0.020$\pm$ 0.021
0.038	1.10	0.016$\pm$ 0.006	0.020$\pm$ 0.010	$-0.013\pm$ 0.009	$-0.021\pm$ 0.014
0.061	1.30	0.026$\pm$ 0.008	0.017$\pm$ 0.009	$-0.017\pm$ 0.011	$-0.024\pm$ 0.013
0.098	1.60	0.014$\pm$ 0.010	$-0.011\pm$ 0.009	0.025$\pm$ 0.015	0.016$\pm$ 0.013
0.155	1.80	0.061$\pm$ 0.015	0.005$\pm$ 0.010	0.008$\pm$ 0.024	$-0.005\pm$ 0.013
0.245	2.00	0.098$\pm$ 0.024	$-0.005\pm$ 0.010	0.058$\pm$ 0.038	0.002$\pm$ 0.014
0.380	2.10	0.258$\pm$ 0.064	0.007$\pm$ 0.018	$-0.008\pm$ 0.105	$-0.031\pm$ 0.024
		$\theta \approx 5.5°$; E=29.1 GeV			
0.061	2.70	0.033$\pm$ 0.036	0.045$\pm$ 0.061	0.059$\pm$ 0.052	0.094$\pm$ 0.084
0.098	3.50	0.029$\pm$ 0.009	0.019$\pm$ 0.013	0.000$\pm$ 0.014	$-0.009\pm$ 0.018
0.155	4.40	0.020$\pm$ 0.008	$-0.017\pm$ 0.009	0.024$\pm$ 0.012	0.012$\pm$ 0.012
0.245	5.30	0.042$\pm$ 0.011	$-0.021\pm$ 0.008	0.037$\pm$ 0.017	0.000$\pm$ 0.011
0.380	6.10	0.035$\pm$ 0.019	$-0.043\pm$ 0.007	0.086$\pm$ 0.032	0.002$\pm$ 0.010
0.580	6.70	0.107$\pm$ 0.045	$-0.020\pm$ 0.006	0.137$\pm$ 0.082	$-0.004\pm$ 0.008
0.780	7.00	$-0.131\pm$ 0.130	$-0.012\pm$ 0.003	0.444$\pm$ 0.232	0.003$\pm$ 0.004
		$\theta \approx 10.5°$; E=29.1 GeV			
0.155	7.10	0.030$\pm$ 0.018	$-0.001\pm$ 0.024	$-0.023\pm$ 0.032	$-0.042\pm$ 0.039
0.245	9.90	0.018$\pm$ 0.016	$-0.036\pm$ 0.016	0.029$\pm$ 0.031	0.006$\pm$ 0.025
0.380	13.10	0.054$\pm$ 0.025	$-0.026\pm$ 0.013	0.035$\pm$ 0.052	$-0.006\pm$ 0.021
0.580	16.30	0.090$\pm$ 0.068	$-0.010\pm$ 0.010	0.031$\pm$ 0.156	$-0.009\pm$ 0.017
0.780	18.40	$-0.182\pm$ 0.259	$-0.008\pm$ 0.005	0.795$\pm$ 0.625	0.010$\pm$ 0.009
		$\theta \approx 2.75°$; E=32.3 GeV			
0.021	0.80	$-0.001\pm$ 0.008	$-0.007\pm$ 0.020	0.003$\pm$ 0.014	0.006$\pm$ 0.031
0.026	0.90	0.002$\pm$ 0.006	$-0.004\pm$ 0.014	$-0.006\pm$ 0.011	$-0.010\pm$ 0.022
0.038	1.10	0.007$\pm$ 0.005	0.001$\pm$ 0.009	0.003$\pm$ 0.008	0.006$\pm$ 0.014
0.061	1.30	0.019$\pm$ 0.006	0.009$\pm$ 0.008	0.015$\pm$ 0.010	0.015$\pm$ 0.013
0.098	1.60	0.021$\pm$ 0.009	$-0.004\pm$ 0.008	$-0.004\pm$ 0.014	$-0.011\pm$ 0.013
0.155	1.80	0.045$\pm$ 0.013	$-0.008\pm$ 0.009	0.045$\pm$ 0.021	0.015$\pm$ 0.013
0.245	2.00	0.076$\pm$ 0.020	$-0.018\pm$ 0.009	0.063$\pm$ 0.034	0.003$\pm$ 0.014
0.380	2.10	0.209$\pm$ 0.053	$-0.004\pm$ 0.017	0.076$\pm$ 0.095	$-0.011\pm$ 0.025
		$\theta \approx 5.5°$; E=32.3 GeV			
0.061	2.70	$-0.015\pm$ 0.023	$-0.041\pm$ 0.042	0.046$\pm$ 0.035	0.077$\pm$ 0.061
0.098	3.50	0.017$\pm$ 0.007	0.000$\pm$ 0.011	0.004$\pm$ 0.011	$-0.003\pm$ 0.016
0.155	4.40	0.033$\pm$ 0.007	$-0.002\pm$ 0.008	0.028$\pm$ 0.010	0.015$\pm$ 0.011
0.245	5.30	0.041$\pm$ 0.009	$-0.023\pm$ 0.007	0.034$\pm$ 0.015	0.003$\pm$ 0.010
0.380	6.10	0.069$\pm$ 0.016	$-0.029\pm$ 0.007	0.000$\pm$ 0.028	$-0.024\pm$ 0.009
0.580	6.70	0.126$\pm$ 0.038	$-0.016\pm$ 0.005	0.078$\pm$ 0.074	$-0.008\pm$ 0.007
0.780	7.00	0.177$\pm$ 0.110	$-0.004\pm$ 0.003	0.170$\pm$ 0.210	$-0.002\pm$ 0.004
		$\theta \approx 10.5°$; E=32.3 GeV			
0.155	7.10	0.027$\pm$ 0.013	0.001$\pm$ 0.019	0.025$\pm$ 0.022	0.019$\pm$ 0.029
0.245	9.90	0.026$\pm$ 0.012	$-0.029\pm$ 0.013	0.006$\pm$ 0.021	$-0.016\pm$ 0.018
0.380	13.10	0.033$\pm$ 0.019	$-0.034\pm$ 0.010	$-0.010\pm$ 0.035	$-0.028\pm$ 0.015
0.580	16.30	0.000$\pm$ 0.048	$-0.024\pm$ 0.008	0.215$\pm$ 0.105	0.013$\pm$ 0.012
0.780	18.40	$-0.146\pm$ 0.191	$-0.008\pm$ 0.004	$-0.527\pm$ 0.424	$-0.011\pm$ 0.007
		AVERAGE			
0.021	0.80	$-0.005\pm$ 0.007	$-0.018\pm$ 0.016	0.003$\pm$ 0.011	0.008$\pm$ 0.023
0.026	0.90	$-0.003\pm$ 0.005	$-0.014\pm$ 0.010	0.002$\pm$ 0.008	0.006$\pm$ 0.015
0.038	1.10	0.011$\pm$ 0.004	0.010$\pm$ 0.007	$-0.004\pm$ 0.006	$-0.007\pm$ 0.010
0.061	1.40	0.020$\pm$ 0.005	0.011$\pm$ 0.006	0.003$\pm$ 0.007	$-0.001\pm$ 0.009
0.098	2.30	0.023$\pm$ 0.004	$-0.003\pm$ 0.005	0.006$\pm$ 0.007	$-0.001\pm$ 0.007
0.155	3.70	0.036$\pm$ 0.004	$-0.007\pm$ 0.004	0.026$\pm$ 0.007	0.009$\pm$ 0.006
0.245	5.00	0.048$\pm$ 0.005	$-0.022\pm$ 0.004	0.036$\pm$ 0.009	0.000$\pm$ 0.005
0.380	7.10	0.064$\pm$ 0.009	$-0.031\pm$ 0.004	0.029$\pm$ 0.017	$-0.015\pm$ 0.005
0.580	8.40	0.092$\pm$ 0.023	$-0.018\pm$ 0.003	0.122$\pm$ 0.047	$-0.004\pm$ 0.005
0.780	8.20	0.004$\pm$ 0.074	$-0.007\pm$ 0.002	0.228$\pm$ 0.142	0.000$\pm$ 0.002