

Charm Production in CC DIS at HERA

Jae D. Nam
Temple Univ.



	pp	ep
nominal	11.11 pb	-7.06 pb
pT=13	-0.47	0.49
pT=11	-0.03	-0.02
Z=35	0.00	-0.01
Z=25	0.16	1.06
ET=+3	-0.01	0.00
ET=-3	0.00	0.07
LF=+30	-0.10	-0.31
LF=-30	0.10	0.31
QCD=2	0.04	1.26
QCD=0	-0.05	-1.45
Rescaling	-0.45	1.15
Multi=0	1.90	3.50

Jae D. Nam



Year	Luminosity	Bin	Q2 Central	N_signal^data	dN_signal^data	N_signal^MC	dN_signal^MC	N_signal^Charm	N_signal^LF	N_kin^EW	N_kin	N_gen^EW	N_gen
0304p	37.733	1	641.404	-3	4.12	2.84	0.19	2.86	-0.05	166.46	171.73	229.78	237.29
0304p	37.733	2	3176.37	-2	3.46	1.45	0.17	1.28	0.11	95.24	100.69	128.84	136.52
0304p	37.733	Combined	0	-5	5.39	4.29	0.26	4.14	0.06	261.71	272.42	358.62	373.81
05e	133.424	1	664.764	-7	8.89	11.75	1.13	11.70	-0.06	651.89	681.55	771.53	810.97
05e	133.424	2	4350.51	-4	12.41	7.05	1.36	5.94	0.42	360.11	438.30	418.59	515.54
05e	133.424	Combined	0	-11	15.26	18.80	1.77	17.64	0.36	1012.00	1119.84	1190.13	1326.50
06e	52.1276	1	672.739	4	5.83	4.70	0.43	4.13	0.50	248.02	259.92	304.11	320.07
06e	52.1276	2	4459.09	-5	7.14	2.33	0.52	1.94	0.14	136.82	166.77	166.31	205.28
06e	52.1276	Combined	0	-1	9.22	7.03	0.67	6.06	0.63	384.84	426.69	470.42	525.35
0607p	135.33	1	633.713	25	8.89	11.85	0.80	11.76	-0.01	655.07	675.88	819.28	846.09
0607p	135.33	2	3274.35	0	6.78	5.65	0.71	5.30	0.28	376.26	397.88	462.97	490.53
0607p	135.33	Combined	0	25	11.18	17.51	1.07	17.06	0.27	1031.33	1073.76	1282.25	1336.62

EW charm fraction	Kin	Gen
0304p	0.96	0.96
05e	0.90	0.90
06e	0.90	0.90
0607p	0.96	0.96



Year	Luminosity	Bin	Q2 Central	N signal^data	dN_signal^data	N signal^MC	dN_signal^MC	N_signal^Char	N signal^LF	N kin^EW	N kin	N gen^EW	N gen
0304p	37.733	1	641.404	-3	4.12311	4.01136	0.26746	4.03479	-0.0529531	166.463	171.731	229.776	237.286
0304p	37.733	2	3176.37	-2	3.4641	2.0479	0.242058	1.81256	0.113777	95.2436	100.686	128.844	136.521
0304p	37.733	3	0	-5	5.38516	6.05925	0.360731	5.84735	0.0608237	261.707	272.416	358.62	373.808
05e	133.424	1	664.764	-7	8.88819	14.4952	1.39833	14.4387	-0.060994	651.885	681.546	771.534	810.965
05e	133.424	2	4350.51	-4	12.4097	8.70221	1.67594	7.32849	0.424054	360.111	438.299	418.593	515.537
05e	133.424	3	0	-11	15.2643	23.1974	2.18268	21.7672	0.36306	1012	1119.84	1190.13	1326.5
06e	52.1276	1	672.739	4	5.83095	5.82927	0.534837	5.11318	0.49588	248.021	259.92	304.109	320.072
06e	52.1276	2	4459.09	-5	7.14143	2.88288	0.64217	2.40121	0.13891	136.819	166.767	166.314	205.283
06e	52.1276	3	0	-1	9.21954	8.71215	0.835723	7.51439	0.634791	384.84	426.686	470.423	525.354
0607p	135.33	1	633.713	25	8.88819	14.2863	0.961807	14.176	-0.0126913	655.069	675.876	819.277	846.089
0607p	135.33	2	3274.35	0	6.78233	6.81116	0.860147	6.38297	0.284016	376.263	397.881	462.969	490.529
0607p	135.33	3	0	25	11.1803	21.0975	1.29032	20.5589	0.271325	1031.33	1073.76	1282.25	1336.62

Rescaling only on LF

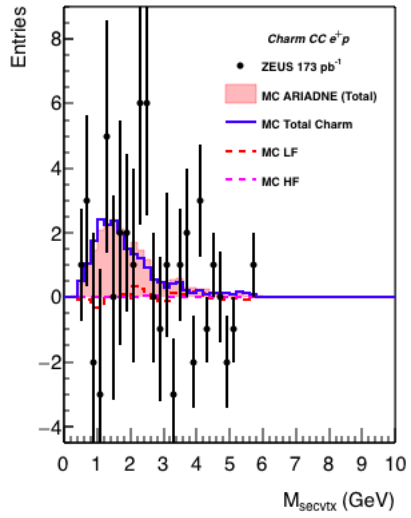


Year	Luminosity	Bin	Q2 Central	N_signal^data	dN_signal^data	N_signal^MC	dN_signal^MC	N_signal^Char	N_signal^LF	N_kin^EW	N_kin	N_gen^EW	N_gen
0304p	37.733	1	641.404	3	4.79583	3.57453	0.214057	3.41454	0.114169	166.463	171.731	229.776	237.286
0304p	37.733	2	3176.37	-2	3.74166	1.86249	0.186209	1.50721	0.300259	95.2436	100.686	128.844	136.521
0304p	37.733	3	0	1	6.08276	5.43703	0.283715	4.92175	0.414428	261.707	272.416	358.62	373.808
05e	133.424	1	664.764	-4	11.1355	16.2359	1.31377	14.9248	1.16546	651.885	681.546	771.534	810.965
05e	133.424	2	4350.51	0	13.2665	10.6936	1.52385	7.25888	2.6187	360.111	438.299	418.593	515.537
05e	133.424	3	0	-4	17.3205	26.9295	2.01199	22.1837	3.78416	1012	1119.84	1190.13	1326.5
06e	52.1276	1	672.739	10	7.07107	6.36916	0.519102	5.39532	0.88228	248.021	259.92	304.109	320.072
06e	52.1276	2	4459.09	-8	8.12404	3.58165	0.599829	2.43805	0.851164	136.819	166.767	166.314	205.283
06e	52.1276	3	0	2	10.7703	9.95082	0.79326	7.83337	1.73344	384.84	426.686	470.423	525.354
0607p	135.33	1	633.713	27	10.4403	16.9597	0.938027	15.4464	1.35584	655.069	675.876	819.277	846.089
0607p	135.33	2	3274.35	4	7.74597	8.19783	0.810353	6.8652	1.22468	376.263	397.881	462.969	490.529
0607p	135.33	3	0	31	13	25.1575	1.23958	22.3116	2.58053	1031.33	1073.76	1282.25	1336.62

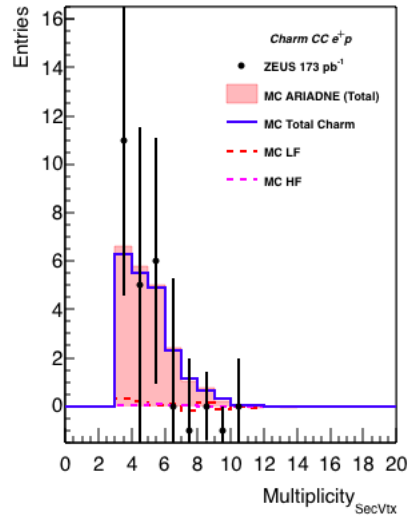
Multiplicity > 1



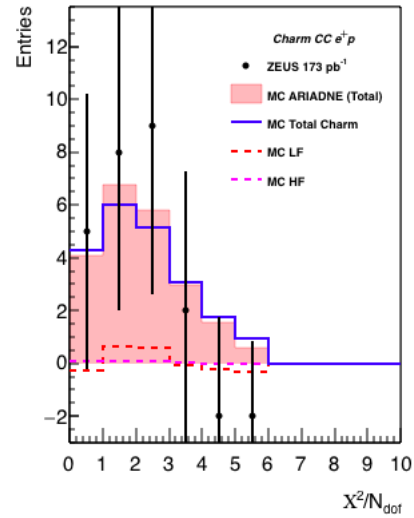
ZEUS



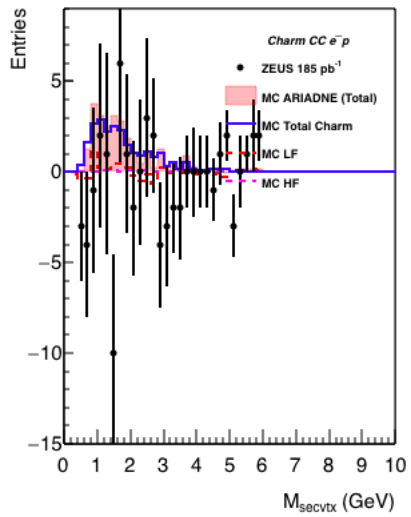
ZEUS



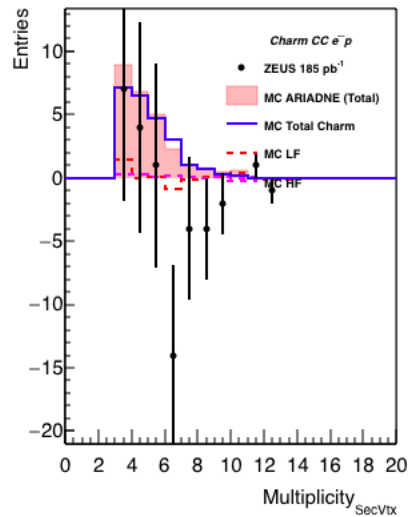
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