

CMS Drell-Yan Double Differential distribution (CMSDY2D)

20 GeV < M_{ll} < 30 GeV					
$[y_{\min} , y_{\max}]$	$d\sigma^{\text{exp}}/dy_{\parallel}/dM_{\parallel}$ (pb)	NLO QCD	C_{NNLO}	C_{EW}	C_{QED}
[0.0, 0.1]	17.840 \pm 1.154 (6.47%)	14.833	1.08	1.00	1.02
[0.1, 0.2]	17.682 \pm 1.102 (6.23%)	14.781	1.09	1.01	1.02
[0.2, 0.3]	17.210 \pm 1.102 (6.30%)	14.798	1.09	1.00	1.02
[0.3, 0.4]	17.630 \pm 1.049 (5.95%)	14.779	1.09	1.00	1.02
[0.4, 0.5]	17.840 \pm 0.997 (5.59%)	14.701	1.09	1.00	1.02
[0.5, 0.6]	18.102 \pm 0.944 (5.21%)	14.714	1.09	1.00	1.01
[0.6, 0.7]	18.417 \pm 0.892 (4.84%)	14.593	1.09	1.00	1.02
[0.7, 0.8]	18.155 \pm 0.787 (4.33%)	14.536	1.09	1.00	1.02
[0.8, 0.9]	18.050 \pm 0.682 (3.78%)	14.459	1.09	1.01	1.02
[0.9, 1.0]	17.840 \pm 0.630 (3.53%)	14.362	1.10	1.00	1.02
[1.0, 1.1]	17.525 \pm 0.577 (3.29%)	14.308	1.10	1.00	1.01
[1.1, 1.2]	17.473 \pm 0.577 (3.30%)	14.160	1.10	1.00	1.02
[1.2, 1.3]	16.895 \pm 0.577 (3.42%)	14.065	1.10	1.00	1.02
[1.3, 1.4]	16.948 \pm 0.682 (4.02%)	13.931	1.10	1.00	1.02
[1.4, 1.5]	16.318 \pm 0.735 (4.50%)	13.747	1.10	1.01	1.02
[1.5, 1.6]	16.476 \pm 0.735 (4.46%)	13.603	1.11	1.00	1.02
[1.6, 1.7]	15.479 \pm 0.735 (4.75%)	13.247	1.11	1.00	1.02
[1.7, 1.8]	15.216 \pm 0.787 (5.17%)	12.845	1.10	1.00	1.02
[1.8, 1.9]	14.062 \pm 0.735 (5.23%)	12.248	1.09	1.00	1.02
[1.9, 2.0]	12.593 \pm 0.682 (5.42%)	11.241	1.08	1.01	1.01
[2.0, 2.1]	11.019 \pm 0.577 (5.24%)	9.583	1.06	1.01	1.02
[2.1, 2.2]	8.395 \pm 0.472 (5.62%)	7.276	1.06	1.01	1.02
[2.2, 2.3]	5.457 \pm 0.420 (7.70%)	4.584	1.10	0.99	1.01
[2.3, 2.4]	2.046 \pm 0.210 (10.26%)	1.481	1.13	1.04	1.01
Averages	5.20%		9.30%	0.55%	1.90%

Table 1: CMSDY2D - Bin 1: Theoretical predictions computed using FEWZ3.1b2

CMS Drell-Yan Double Differential distribution (CMSDY2D)

30 GeV < M_{ll} < 45 GeV					
$[y_{\min} , y_{\max}]$	$d\sigma^{\text{exp}}/dy_{\parallel}/dM_{\parallel}$ (pb)	NLO QCD	C_{NNLO}	C_{EW}	C_{QED}
[0.0, 0.1]	26.865 \pm 0.944 (3.51%)	25.360	0.93	1.03	1.00
[0.1, 0.2]	25.658 \pm 0.840 (3.27%)	25.422	0.94	1.03	1.00
[0.2, 0.3]	25.868 \pm 0.787 (3.04%)	25.374	0.94	1.03	1.01
[0.3, 0.4]	25.658 \pm 0.787 (3.07%)	25.450	0.94	1.03	1.00
[0.4, 0.5]	26.130 \pm 0.735 (2.81%)	25.283	0.94	1.03	1.01
[0.5, 0.6]	27.075 \pm 0.735 (2.71%)	25.222	0.94	1.03	1.01
[0.6, 0.7]	26.183 \pm 0.735 (2.81%)	25.287	0.94	1.03	1.00
[0.7, 0.8]	25.658 \pm 0.787 (3.07%)	25.190	0.94	1.03	1.00
[0.8, 0.9]	26.287 \pm 0.787 (2.99%)	25.061	0.95	1.03	1.00
[0.9, 1.0]	25.605 \pm 0.735 (2.87%)	24.953	0.95	1.03	1.01
[1.0, 1.1]	25.710 \pm 0.735 (2.86%)	24.934	0.95	1.03	1.00
[1.1, 1.2]	25.553 \pm 0.682 (2.67%)	24.724	0.95	1.03	1.01
[1.2, 1.3]	24.503 \pm 0.682 (2.78%)	24.330	0.94	1.04	1.00
[1.3, 1.4]	25.763 \pm 0.682 (2.65%)	24.206	0.94	1.02	1.00
[1.4, 1.5]	24.084 \pm 0.630 (2.62%)	23.299	0.94	1.03	1.00
[1.5, 1.6]	23.349 \pm 0.630 (2.70%)	22.192	0.94	1.03	1.00
[1.6, 1.7]	21.670 \pm 0.577 (2.66%)	20.579	0.95	1.04	0.99
[1.7, 1.8]	19.256 \pm 0.525 (2.73%)	18.627	0.96	1.03	0.99
[1.8, 1.9]	16.581 \pm 0.525 (3.17%)	16.128	0.98	1.03	1.00
[1.9, 2.0]	13.800 \pm 0.472 (3.42%)	13.208	1.01	1.04	1.00
[2.0, 2.1]	11.019 \pm 0.472 (4.28%)	10.302	1.04	1.03	1.00
[2.1, 2.2]	7.871 \pm 0.420 (5.34%)	7.413	1.05	1.04	1.00
[2.2, 2.3]	4.670 \pm 0.315 (6.75%)	4.431	1.03	1.04	1.01
[2.3, 2.4]	1.627 \pm 0.157 (9.65%)	1.486	0.83	1.06	1.04
Averages	3.52%		5.56%	3.20%	0.60%

Table 2: CMSDY2D - Bin 2: Theoretical predictions computed using FEWZ3.1b2

CMS Drell-Yan Double Differential distribution (CMSDY2D)

45 GeV < M_{ll} < 60 GeV					
$[y_{\min} , y_{\max}]$	$d\sigma^{\text{exp}}/dy_{\parallel}/dM_{\parallel}$ (pb)	NLO QCD	C_{NNLO}	C_{EW}	C_{QED}
[0.0, 0.1]	11.229 \pm 0.315 (2.81%)	10.510	0.94	1.04	1.09
[0.1, 0.2]	11.176 \pm 0.315 (2.82%)	10.510	0.95	1.04	1.09
[0.2, 0.3]	11.071 \pm 0.367 (3.31%)	10.506	0.96	1.04	1.09
[0.3, 0.4]	11.334 \pm 0.367 (3.24%)	10.495	0.97	1.04	1.09
[0.4, 0.5]	10.651 \pm 0.420 (3.94%)	10.464	0.97	1.04	1.09
[0.5, 0.6]	11.701 \pm 0.315 (2.69%)	10.495	0.97	1.03	1.09
[0.6, 0.7]	11.491 \pm 0.315 (2.74%)	10.405	0.97	1.04	1.09
[0.7, 0.8]	11.281 \pm 0.367 (3.25%)	10.386	0.97	1.04	1.09
[0.8, 0.9]	11.281 \pm 0.315 (2.79%)	10.299	0.97	1.04	1.09
[0.9, 1.0]	11.176 \pm 0.315 (2.82%)	10.205	0.97	1.04	1.09
[1.0, 1.1]	10.756 \pm 0.315 (2.93%)	10.022	0.97	1.04	1.08
[1.1, 1.2]	10.284 \pm 0.315 (3.06%)	9.734	0.97	1.04	1.08
[1.2, 1.3]	9.759 \pm 0.315 (3.23%)	9.254	0.98	1.04	1.08
[1.3, 1.4]	9.812 \pm 0.262 (2.67%)	8.692	0.98	1.04	1.09
[1.4, 1.5]	8.920 \pm 0.262 (2.94%)	8.153	0.99	1.04	1.08
[1.5, 1.6]	8.395 \pm 0.315 (3.75%)	7.477	0.99	1.04	1.09
[1.6, 1.7]	7.346 \pm 0.210 (2.86%)	6.790	1.00	1.04	1.09
[1.7, 1.8]	6.401 \pm 0.210 (3.28%)	5.990	1.02	1.04	1.09
[1.8, 1.9]	5.929 \pm 0.262 (4.42%)	5.138	1.03	1.04	1.10
[1.9, 2.0]	4.932 \pm 0.262 (5.31%)	4.278	1.05	1.04	1.09
[2.0, 2.1]	4.040 \pm 0.262 (6.49%)	3.338	1.07	1.05	1.10
[2.1, 2.2]	2.571 \pm 0.157 (6.11%)	2.420	1.09	1.03	1.09
[2.2, 2.3]	1.784 \pm 0.210 (11.77%)	1.438	1.13	1.05	1.10
[2.3, 2.4]	0.630 \pm 0.105 (16.67%)	0.497	1.18	1.01	1.07
Averages	4.41%		4.31%	3.92%	8.97%

Table 3: CMSDY2D - Bin 3: Theoretical predictions computed using FEWZ3.1b2

CMS Drell-Yan Double Differential distribution (CMSDY2D)

60 GeV < M_{ll} < 120 GeV					
$[y_{\min} , y_{\max}]$	$d\sigma^{\text{exp}}/dy_{ll}/dM_{ll}$ (pb)	NLO QCD	C_{NNLO}	C_{EW}	C_{QED}
[0.0, 0.1]	317.444 \pm 4.198 (1.32%)	294.303	0.98	1.01	1.01
[0.1, 0.2]	315.345 \pm 4.198 (1.33%)	291.345	0.98	1.02	1.02
[0.2, 0.3]	315.869 \pm 4.198 (1.33%)	291.020	0.98	1.02	1.02
[0.3, 0.4]	312.721 \pm 4.198 (1.34%)	289.593	0.98	1.01	1.02
[0.4, 0.5]	312.721 \pm 4.198 (1.34%)	286.104	0.98	1.02	1.02
[0.5, 0.6]	309.573 \pm 4.198 (1.36%)	282.625	0.98	1.02	1.01
[0.6, 0.7]	306.950 \pm 4.198 (1.37%)	276.414	0.98	1.02	1.02
[0.7, 0.8]	299.604 \pm 4.198 (1.40%)	270.499	0.99	1.02	1.01
[0.8, 0.9]	292.258 \pm 4.198 (1.44%)	264.976	0.99	1.01	1.02
[0.9, 1.0]	285.962 \pm 4.198 (1.47%)	255.890	0.99	1.02	1.01
[1.0, 1.1]	275.992 \pm 4.198 (1.52%)	245.521	0.99	1.02	1.03
[1.1, 1.2]	264.449 \pm 4.198 (1.59%)	237.543	0.99	1.01	1.01
[1.2, 1.3]	249.757 \pm 4.198 (1.68%)	223.674	1.00	1.01	1.02
[1.3, 1.4]	234.016 \pm 3.673 (1.57%)	208.769	1.00	1.02	1.02
[1.4, 1.5]	219.325 \pm 3.673 (1.67%)	193.839	1.00	1.02	1.03
[1.5, 1.6]	196.763 \pm 3.148 (1.60%)	176.081	1.01	1.02	1.01
[1.6, 1.7]	177.873 \pm 3.148 (1.77%)	156.713	1.01	1.02	1.03
[1.7, 1.8]	153.737 \pm 3.148 (2.05%)	139.246	1.01	1.01	1.01
[1.8, 1.9]	131.700 \pm 2.624 (1.99%)	117.217	1.02	1.02	1.02
[1.9, 2.0]	106.514 \pm 2.624 (2.46%)	96.517	1.02	1.01	1.03
[2.0, 2.1]	82.378 \pm 2.624 (3.19%)	74.073	1.03	1.02	1.02
[2.1, 2.2]	57.192 \pm 2.099 (3.67%)	52.844	1.05	1.00	1.02
[2.2, 2.3]	33.581 \pm 2.099 (6.25%)	31.049	1.08	1.02	1.01
[2.3, 2.4]	10.494 \pm 0.525 (5.00%)	10.395	1.45	1.00	0.99
Averages	2.07%		3.61%	1.57%	1.90%

Table 4: CMSDY2D - Bin 4: Theoretical predictions computed using FEWZ3.1b2

CMS Drell-Yan Double Differential distribution (CMSDY2D)

120 GeV < M_{ll} < 200 GeV					
$[y_{\min} , y_{\max}]$	$d\sigma^{\text{exp}}/dy_{\parallel}/dM_{\parallel}$ (pb)	NLO QCD	C_{NNLO}	C_{EW}	C_{QED}
[0.0, 0.1]	3.474 ± 0.163 (4.69%)	3.252	0.99	1.00	1.00
[0.1, 0.2]	3.605 ± 0.163 (4.52%)	3.253	1.00	0.99	1.00
[0.2, 0.3]	3.536 ± 0.168 (4.75%)	3.237	1.00	0.99	1.00
[0.3, 0.4]	3.521 ± 0.157 (4.46%)	3.184	1.00	1.00	1.00
[0.4, 0.5]	3.384 ± 0.142 (4.20%)	3.161	1.00	0.99	1.00
[0.5, 0.6]	3.521 ± 0.147 (4.17%)	3.103	1.00	0.99	1.00
[0.6, 0.7]	3.306 ± 0.152 (4.60%)	3.049	1.00	0.99	1.00
[0.7, 0.8]	3.321 ± 0.136 (4.10%)	2.985	1.00	1.00	1.00
[0.8, 0.9]	3.216 ± 0.147 (4.57%)	2.903	1.00	0.99	1.00
[0.9, 1.0]	3.054 ± 0.126 (4.13%)	2.815	1.00	1.00	1.00
[1.0, 1.1]	3.033 ± 0.121 (3.99%)	2.714	1.00	1.00	1.00
[1.1, 1.2]	2.791 ± 0.115 (4.12%)	2.581	1.00	1.00	1.00
[1.2, 1.3]	2.713 ± 0.115 (4.24%)	2.446	1.00	1.00	1.00
[1.3, 1.4]	2.519 ± 0.110 (4.37%)	2.299	1.01	1.00	1.00
[1.4, 1.5]	2.440 ± 0.110 (4.51%)	2.125	1.01	1.00	1.00
[1.5, 1.6]	2.188 ± 0.110 (5.03%)	1.924	1.02	1.00	1.00
[1.6, 1.7]	1.952 ± 0.105 (5.38%)	1.713	1.02	1.00	1.00
[1.7, 1.8]	1.579 ± 0.100 (6.33%)	1.491	1.02	1.00	1.00
[1.8, 1.9]	1.254 ± 0.094 (7.50%)	1.249	1.02	1.00	1.00
[1.9, 2.0]	1.160 ± 0.100 (8.62%)	1.021	1.02	1.00	1.00
[2.0, 2.1]	0.729 ± 0.079 (10.84%)	0.771	1.00	0.99	1.00
[2.1, 2.2]	0.525 ± 0.073 (13.90%)	0.535	0.98	1.00	1.00
[2.2, 2.3]	0.278 ± 0.052 (18.71%)	0.308	0.93	0.99	1.00
[2.3, 2.4]	0.105 ± 0.026 (24.76%)	0.101	0.87	0.95	1.00
Averages	6.94%		1.66%	0.65%	0.04%

Table 5: CMSDY2D - Bin 5: Theoretical predictions computed using FEWZ3.1b2

CMS Drell-Yan Double Differential distribution (CMSDY2D)

200 GeV < M_{ll} < 1500 GeV					
$[y_{\min} , y_{\max}]$	$d\sigma^{\text{exp}}/d\mathbf{y}_{ll}/dM_{ll}$ (pb)	NLO QCD	C_{NNLO}	C_{EW}	C_{QED}
[0.0, 0.2]	0.530 ± 0.073 (13.77%)	0.545	1.03	1.06	1.03
[0.2, 0.4]	0.609 ± 0.063 (10.34%)	0.530	1.02	1.07	1.04
[0.4, 0.6]	0.651 ± 0.052 (7.99%)	0.507	1.02	1.08	1.06
[0.6, 0.8]	0.522 ± 0.048 (9.20%)	0.479	1.02	1.10	1.07
[0.8, 1.0]	0.534 ± 0.041 (7.68%)	0.443	1.02	1.12	1.09
[1.0, 1.2]	0.527 ± 0.039 (7.40%)	0.396	1.02	1.14	1.11
[1.2, 1.4]	0.476 ± 0.033 (6.93%)	0.337	1.02	1.17	1.14
[1.4, 1.6]	0.323 ± 0.029 (8.98%)	0.271	1.02	1.18	1.16
[1.6, 1.8]	0.247 ± 0.026 (10.53%)	0.194	1.03	1.22	1.20
[1.8, 2.0]	0.152 ± 0.022 (14.47%)	0.125	1.04	1.22	1.20
[2.0, 2.2]	0.097 ± 0.020 (20.62%)	0.061	1.05	1.26	1.25
[2.2, 2.4]	0.022 ± 0.008 (36.36%)	0.016	1.10	1.25	0.38
Averages	12.86%		3.27%	15.72%	16.55%

Table 6: CMSDY2D - Bin 6: Theoretical predictions computed using FEWZ3.1b2

ATLAS High Mass Drell-Yan (ATLASZHIGHESS49FB)

M_{ee}	$d\sigma^{\text{exp}}/dM_{ee}$ (fb/GeV)	NLO QCD	C_{NNLO}	C_{EW}	C_{QED}
[116, 130]	$224 \pm (1.1 \pm 4.2)\%$	208.0	1.00	0.99	0.97
[130, 150]	$102 \pm (1.4 \pm 4.3)\%$	90.2	1.00	1.00	0.97
[150, 170]	$51.2 \pm (2.0 \pm 4.6)\%$	44.82	1.00	1.00	0.97
[170, 190]	$28.4 \pm (2.7 \pm 4.7)\%$	25.51	0.99	1.00	0.97
[190, 210]	$18.7 \pm (3.0 \pm 5.3)\%$	15.81	0.99	1.10	0.98
[210, 230]	$10.7 \pm (4.4 \pm 6.1)\%$	10.36	0.99	1.00	0.98
[230, 250]	$8.23 \pm (5.2 \pm 5.9)\%$	7.287	0.99	1.00	0.98
[250, 300]	$4.66 \pm (4.3 \pm 5.8)\%$	3.991	0.99	1.00	0.97
[300, 400]	$1.70 \pm (5.1 \pm 5.9)\%$	1.434	0.98	1.00	0.97
[400, 500]	$0.474 \pm (9.4 \pm 6.3)\%$	0.4628	0.95	0.99	0.97
[500, 700]	$0.146 \pm (11 \pm 5.7)\%$	0.12224	0.94	0.99	0.97
[700, 1000]	$0.0221 \pm (24 \pm 7.5)\%$	0.02115	0.92	0.97	0.96
[1000, 1500]	$0.0028 \pm (50 \pm 9.8)\%$	0.002438	0.90	0.95	0.95
Averages	11.97%		2.88%	7.83%	2.97%

Table 7: ATLASZHIGHESS49FB - Theoretical predictions computed using FEWZ3.1b2