APPENDIX A: TABLES OF MEASUREMENTS, THEORY CALCULATIONS AND NON-PERTURBATIVE HADRONIZATION CORRECTIONS

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In this appendix, we provide tables of the measured differential cross sections, theory predictions, and hadronization corrections described in this paper. The region that defines the kinematic phase space of the measurement at particle level is given by the electron transverse momentum, $p_T^e \geq 15$ GeV, and pseudorapidity $|\eta^e| < 1.1$, total missing transverse energy $\not{p}_T > 20$ GeV, W boson transverse mass $M_T^W > 40$ GeV, and jet transverse momentum $p_T^{\rm jet} \geq 20$ GeV and rapidity $|y^{\rm jet}| < 3.2$.

TABLE II: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of leading jet rapidity for events with one or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown).

		$1/\sigma_W \cdot d\sigma/dy^{\rm jet}$ [one-jet bin] $(1/\Delta y)$		
Bin interval y	Bin center y	Measurement ($\times 10^{-3}$)	npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-3}$)
-3.2 – -2.8	-3.0	$1.62 \pm 0.03^{+0.54}_{-0.31}$	0.99 ± 0.02	$2.23^{+0.24}_{-0.24}$
-2.8 – -2.4	-2.6	$4.3 \pm 0.1^{+1.3}_{-0.8}$	1.01 ± 0.02	$4.9^{+0.3}_{-0.4}$
-2.4 – -2.0	-2.2	$8.6 \pm 0.1^{+2.1}_{-1.2}$	1.01 ± 0.01	$9.3^{+0.6}_{-0.7}$
-2.0 – -1.6	-1.8	$13.8 \pm 0.1^{+2.4}_{-1.5}$	1.01 ± 0.01	$15.0^{+0.8}_{-1.0}$
-1.6 – -1.2	-1.4	$18.5 \pm 0.1^{+2.1}_{-1.5}$	1.01 ± 0.01	$21.5^{+1.1}_{-1.3}$
-1.2 – -0.8	-1.0	$24.3 \pm 0.1^{+2.2}_{-1.6}$	1.01 ± 0.01	$28.3^{+1.4}_{-1.6}$
-0.8 – -0.4	-0.6	$31.6 \pm 0.1^{+2.1}_{-1.5}$	1.02 ± 0.02	$33.8^{+1.6}_{-1.9}$
-0.4 – 0.0	-0.2	$35.0 \pm 0.1^{+2.0}_{-1.4}$	1.02 ± 0.02	$36.8^{+1.7}_{-2.1}$
0.0 – 0.4	0.2	$34.9 \pm 0.1^{+1.9}_{-1.4}$	1.02 ± 0.02	$36.8^{+1.7}_{-2.1}$
0.4 – 0.8	0.6	$31.9 \pm 0.1^{+2.1}_{-1.5}$	1.02 ± 0.02	$33.8^{+1.6}_{-1.9}$
0.8 – 1.2	1.0	$25.3 \pm 0.1^{+2.3}_{-1.7}$	1.01 ± 0.01	$28.3^{+1.4}_{-1.6}$
1.2 – 1.6	1.4	$19.9 \pm 0.1^{+2.3}_{-1.6}$	1.01 ± 0.01	$21.5^{+1.1}_{-1.3}$
1.6 – 2.0	1.8	$14.8 \pm 0.1^{+2.6}_{-1.6}$	1.01 ± 0.01	$15.0^{+0.8}_{-1.0}$
2.0 – 2.4	2.2	$9.4 \pm 0.1^{+2.2}_{-1.3}$	1.01 ± 0.01	$9.3^{+0.6}_{-0.7}$
2.4 – 2.8	2.6	$4.8 \pm 0.1^{+1.4}_{-0.8}$	1.01 ± 0.02	$4.9^{+0.3}_{-0.4}$
2.8 – 3.2	3.0	$1.73 \pm 0.03^{+0.55}_{-0.31}$	0.99 ± 0.02	$2.23^{+0.24}_{-0.24}$

TABLE III: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of second jet rapidity for events with two or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/dy^{\text{jet}}$ [two-jet bin] $(1/\Delta y)$				
Bin interval y	Bin center y	Measurement $(\times 10^{-3})$	npQCD correction	NLO BLACKHAT+SHERPA $(\times 10^{-3})$	HEJ $(\times 10^{-3})$
$-3.2 - -2.8$	-3.0	$0.34 \pm 0.02^{+0.11}_{-0.07}$	1.10 ± 0.04	$0.59^{+0.08}_{-0.09}$	$0.44^{+0.22}_{-0.13}$
$-2.8 - -2.4$	-2.6	$0.81 \pm 0.02^{+0.25}_{-0.15}$	1.09 ± 0.03	$1.16^{+0.12}_{-0.16}$	$0.94^{+0.45}_{-0.27}$
$-2.4 - -2.0$	-2.2	$1.48 \pm 0.03^{+0.42}_{-0.25}$	1.08 ± 0.03	$1.89^{+0.18}_{-0.25}$	$1.69^{+0.78}_{-0.48}$
$-2.0 - -1.6$	-1.8	$2.21 \pm 0.04^{+0.53}_{-0.33}$	1.05 ± 0.02	$2.60^{+0.17}_{-0.30}$	$2.51^{+1.13}_{-0.70}$
$-1.6 - -1.2$	-1.4	$2.94 \pm 0.05^{+0.57}_{-0.38}$	1.05 ± 0.02	$3.56^{+0.27}_{-0.41}$	$3.35^{+1.47}_{-0.93}$
$-1.2 - -0.8$	-1.0	$3.70 \pm 0.05^{+0.58}_{-0.40}$	1.05 ± 0.02	$4.36^{+0.34}_{-0.50}$	$4.39^{+1.89}_{-1.20}$
$-0.8 - -0.4$	-0.6	$4.56 \pm 0.06^{+0.60}_{-0.41}$	1.05 ± 0.03	$4.94^{+0.32}_{-0.53}$	$5.04^{+2.14}_{-1.37}$
$-0.4 - 0.0$	-0.3	$5.06 \pm 0.06^{+0.58}_{-0.41}$	1.06 ± 0.03	$5.35^{+0.36}_{-0.58}$	$5.47^{+2.33}_{-1.48}$
$0.0 - 0.4$	0.3	$5.04 \pm 0.06^{+0.57}_{-0.40}$	1.06 ± 0.03	$5.35^{+0.36}_{-0.58}$	$5.47^{+2.32}_{-1.48}$
$0.4 - 0.8$	0.6	$4.61 \pm 0.06^{+0.58}_{-0.41}$	1.05 ± 0.03	$4.94^{+0.32}_{-0.53}$	$4.94^{+2.11}_{-1.34}$
$0.8 - 1.2$	1.0	$3.85 \pm 0.06^{+0.59}_{-0.42}$	1.05 ± 0.02	$4.36^{+0.34}_{-0.50}$	$4.28^{+1.84}_{-1.17}$
$1.2 - 1.6$	1.4	$3.08 \pm 0.04^{+0.59}_{-0.39}$	1.05 ± 0.02	$3.56^{+0.27}_{-0.41}$	$3.45^{+1.51}_{-0.95}$
$1.6 - 2.0$	1.8	$2.31 \pm 0.04^{+0.55}_{-0.34}$	1.05 ± 0.02	$2.60^{+0.17}_{-0.30}$	$2.48^{+1.11}_{-0.69}$
$2.0 - 2.4$	2.2	$1.55 \pm 0.03^{+0.43}_{-0.25}$	1.08 ± 0.03	$1.89^{+0.18}_{-0.25}$	$1.65^{+0.78}_{-0.47}$
$2.4 - 2.8$	2.6	$0.83 \pm 0.03^{+0.25}_{-0.14}$	1.09 ± 0.03	$1.16^{+0.12}_{-0.16}$	$0.91^{+0.43}_{-0.26}$
$2.8 - 3.2$	3.0	$0.34 \pm 0.01^{+0.11}_{-0.06}$	1.10 ± 0.04	$0.59^{+0.08}_{-0.09}$	$0.43^{+0.21}_{-0.13}$

TABLE IV: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of third jet rapidity for events with three or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/dy^{\text{jet}}$ [three-jet bin] $(1/\Delta y)$				
Bin interval y	Bin center y	Measurement $(\times 10^{-3})$	npQCD correction	NLO BLACKHAT+SHERPA $(\times 10^{-3})$	HEJ $(\times 10^{-3})$
$-3.2 - -2.4$	-2.8	$0.073 \pm 0.005^{+0.028}_{-0.015}$	1.07 ± 0.05	$0.130^{+0.020}_{-0.026}$	$0.126^{+0.101}_{-0.050}$
$-2.4 - -1.6$	-2.0	$0.25 \pm 0.01^{+0.08}_{-0.05}$	1.09 ± 0.04	$0.32^{+0.04}_{-0.06}$	$0.34^{+0.24}_{-0.13}$
$-1.6 - -0.8$	-1.2	$0.48 \pm 0.02^{+0.11}_{-0.07}$	1.10 ± 0.04	$0.54^{+0.07}_{-0.10}$	$0.53^{+0.36}_{-0.20}$
$-0.8 - 0.0$	-0.4	$0.75 \pm 0.02^{+0.12}_{-0.09}$	1.09 ± 0.05	$0.67^{+0.08}_{-0.11}$	$0.67^{+0.44}_{-0.24}$
$0.0 - 0.8$	0.4	$0.75 \pm 0.02^{+0.13}_{-0.09}$	1.09 ± 0.05	$0.67^{+0.08}_{-0.11}$	$0.67^{+0.44}_{-0.24}$
$0.8 - 1.6$	1.2	$0.50 \pm 0.02^{+0.12}_{-0.08}$	1.10 ± 0.04	$0.54^{+0.07}_{-0.10}$	$0.52^{+0.35}_{-0.19}$
$1.6 - 2.4$	2.0	$0.26 \pm 0.01^{+0.08}_{-0.05}$	1.09 ± 0.04	$0.32^{+0.04}_{-0.06}$	$0.33^{+0.23}_{-0.12}$
$2.4 - 3.2$	2.8	$0.079 \pm 0.005^{+0.026}_{-0.015}$	1.07 ± 0.05	$0.130^{+0.020}_{-0.026}$	$0.124^{+0.094}_{-0.048}$

TABLE V: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of fourth jet rapidity for events with four or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

		$1/\sigma_W \cdot d\sigma/dy^{\text{jet}}$ [four-jet bin] $(1/\Delta y)$			
Bin interval y	Bin center y	Measurement $(\times 10^{-3})$	npQCD correction	NLO BLACKHAT+SHERPA $(\times 10^{-3})$	HEJ $(\times 10^{-3})$
$-3.2 - -2.4$	-2.8	$0.009 \pm 0.003^{+0.005}_{-0.003}$	1.23 ± 0.15	$0.015^{+0.003}_{-0.004}$	$0.014^{+0.014}_{-0.006}$
$-2.4 - -1.6$	-2.0	$0.033 \pm 0.006^{+0.013}_{-0.009}$	1.22 ± 0.09	$0.039^{+0.010}_{-0.011}$	$0.034^{+0.032}_{-0.015}$
$-1.6 - -0.8$	-1.2	$0.074 \pm 0.007^{+0.024}_{-0.016}$	1.13 ± 0.07	$0.062^{+0.017}_{-0.017}$	$0.053^{+0.048}_{-0.023}$
$-0.8 - 0.0$	-0.5	$0.107 \pm 0.009^{+0.028}_{-0.021}$	1.23 ± 0.13	$0.084^{+0.021}_{-0.022}$	$0.072^{+0.064}_{-0.031}$
$0.0 - 0.8$	0.5	$0.102 \pm 0.007^{+0.027}_{-0.019}$	1.23 ± 0.13	$0.084^{+0.021}_{-0.022}$	$0.064^{+0.058}_{-0.028}$
$0.8 - 1.6$	1.2	$0.062 \pm 0.007^{+0.019}_{-0.013}$	1.13 ± 0.07	$0.062^{+0.017}_{-0.017}$	$0.055^{+0.050}_{-0.024}$
$1.6 - 2.4$	2.0	$0.028 \pm 0.004^{+0.011}_{-0.007}$	1.22 ± 0.09	$0.039^{+0.010}_{-0.011}$	$0.032^{+0.030}_{-0.014}$
$2.4 - 3.2$	2.8	$0.007 \pm 0.002^{+0.003}_{-0.002}$	1.23 ± 0.15	$0.015^{+0.003}_{-0.004}$	$0.014^{+0.014}_{-0.006}$

TABLE VI: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of electron transverse momentum for events with one or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown).

$1/\sigma_W \cdot d\sigma/dp_T^{\text{electron}}$ [one-jet bin] (GeV^{-1})				
Bin interval (GeV)	Bin center (GeV)	Measurement ($\times 10^{-6}$)	npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-6}$)
$15.0 - 25.0$	20.0	$2209 \pm 9 \; ^{+246}_{-200}$	1.04 ± 0.01	2128^{+117}_{-136}
$25.0 - 35.0$	26.8	$3355 \pm 9 \; ^{+415}_{-275}$	1.02 ± 0.02	3529^{+179}_{-209}
$35.0 - 45.0$	40.1	$2602 \pm 8 \; ^{+331}_{-215}$	1.05 ± 0.03	2879^{+188}_{-196}
$45.0 - 55.0$	50.4	$1753 \pm 6 \; ^{+128}_{-97}$	0.96 ± 0.01	2092^{+48}_{-90}
$55.0 - 70.0$	61.6	$617 \pm 3 \; ^{+17}_{-19}$	0.98 ± 0.00	768^{+47}_{-53}
$70.0 - 90.0$	78.6	$119.7 \pm 1.0 \; ^{+2.4}_{-4.6}$	0.99 ± 0.00	$143.6^{+9.7}_{-11.0}$
$90.0 - 130.0$	106.5	$15.82 \pm 0.29 \; ^{+0.40}_{-0.82}$	0.98 ± 0.00	$18.18^{+1.12}_{-1.36}$
$130.0 - 200.0$	157.8	$1.50 \pm 0.07 \; ^{+0.05}_{-0.09}$	0.96 ± 0.01	$1.69^{+0.12}_{-0.14}$
$200.0 - 300.0$	228.7	$0.10 \pm 0.02 \; ^{+0.00}_{-0.01}$	1.01 ± 0.03	$0.08^{+0.00}_{-0.01}$

TABLE VII: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of electron transverse momentum for events with two or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/dp_T^{\text{electron}}$ [two-jet bin] (GeV^{-1})					
Bin interval (GeV)	Bin center (GeV)	Measurement ($\times 10^{-6}$)	npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-6}$)	HEJ ($\times 10^{-6}$)
$15.0 - 25.0$	19.7	$365 \pm 4 \; ^{+63}_{-45}$	1.07 ± 0.03	350^{+26}_{-40}	329^{+146}_{-91}
$25.0 - 35.0$	27.9	$481 \pm 4 \; ^{+93}_{-59}$	1.08 ± 0.03	533^{+40}_{-62}	495^{+214}_{-136}
$35.0 - 45.0$	40.3	$383 \pm 4 \; ^{+75}_{-47}$	1.10 ± 0.03	470^{+34}_{-54}	443^{+190}_{-121}
$45.0 - 55.0$	49.7	$228 \pm 3 \; ^{+38}_{-25}$	1.02 ± 0.02	274^{+21}_{-32}	277^{+120}_{-76}
$55.0 - 70.0$	62.1	$115 \pm 1 \; ^{+14}_{-10}$	0.99 ± 0.02	138^{+10}_{-16}	148^{+65}_{-41}
$70.0 - 100.0$	82.5	$28.6 \pm 0.5 \; ^{+2.3}_{-2.2}$	0.99 ± 0.02	$35.0^{+2.6}_{-4.0}$	$36.6^{+16.5}_{-10.3}$
$100.0 - 170.0$	127.6	$2.46 \pm 0.08 \; ^{+0.15}_{-0.18}$	0.97 ± 0.02	$2.77^{+0.17}_{-0.30}$	$3.06^{+1.44}_{-0.89}$
$170.0 - 250.0$	197.9	$0.134 \pm 0.019 \; ^{+0.007}_{-0.010}$	0.96 ± 0.02	$0.143^{+0.005}_{-0.013}$	$0.144^{+0.074}_{-0.045}$

TABLE VIII: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of electron transverse momentum for events with three or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/dp_T^{\text{electron}}$ [three-jet bin] (GeV^{-1})				
Bin interval (GeV)	Bin center (GeV)	Measurement ($\times 10^{-6}$)	npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-6}$)	HEJ ($\times 10^{-6}$)
$15.0 - 25.0$	19.8	$57 \pm 2 \,^{+14}_{-9}$	1.12 ± 0.04	49^{+6}_{-9}	47^{+33}_{-18}
$25.0 - 35.0$	26.9	$68 \pm 2 \,^{+17}_{-11}$	1.13 ± 0.05	69^{+10}_{-13}	66^{+46}_{-24}
$35.0 - 50.0$	42.4	$48 \pm 1 \,^{+11}_{-7}$	1.11 ± 0.05	52^{+6}_{-9}	52^{+35}_{-19}
$50.0 - 70.0$	59.4	$21.2 \pm 0.6 \,^{+4.4}_{-3.0}$	1.03 ± 0.03	$23.5^{+3.4}_{-4.2}$	$24.7^{+16.9}_{-9.2}$
$70.0 - 110.0$	86.5	$4.44 \pm 0.19 \,^{+0.75}_{-0.57}$	1.01 ± 0.02	$5.03^{+0.74}_{-0.90}$	$5.14^{+3.47}_{-1.89}$
$110.0 - 150.0$	126.9	$0.589 \pm 0.064 \,^{+0.085}_{-0.072}$	0.97 ± 0.04	$0.589^{+0.078}_{-0.100}$	$0.613^{+0.411}_{-0.226}$
$150.0 - 250.0$	181.4	$0.063 \pm 0.012 \,^{+0.008}_{-0.007}$	0.98 ± 0.04	$0.063^{+0.008}_{-0.011}$	$0.065^{+0.043}_{-0.024}$

TABLE IX: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of electron transverse momentum for events with four or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/dp_T^{\text{electron}}$ [four-jet bin] (GeV^{-1})				
Bin interval (GeV)	Bin center (GeV)	Measurement ($\times 10^{-6}$)	npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-6}$)	HEJ ($\times 10^{-6}$)
$15.0 - 25.0$	19.5	$8.9 \pm 0.8 \,^{+2.7}_{-2.00}$	1.31 ± 0.08	$6.2^{+1.4}_{-1.6}$	$5.0^{+4.7}_{-2.2}$
$25.0 - 35.0$	26.0	$9.8 \pm 0.7 \,^{+3.0}_{-2.08}$	1.18 ± 0.12	$7.8^{+2.2}_{-2.2}$	$6.7^{+6.1}_{-2.9}$
$35.0 - 50.0$	42.2	$6.2 \pm 0.4 \,^{+2.0}_{-1.31}$	1.24 ± 0.17	$6.2^{+1.6}_{-1.7}$	$5.1^{+4.7}_{-2.3}$
$50.0 - 70.0$	59.5	$2.73 \pm 0.25 \,^{+0.90}_{-0.61}$	1.12 ± 0.04	$2.86^{+0.72}_{-0.77}$	$2.46^{+2.27}_{-1.09}$
$70.0 - 130.0$	93.3	$0.49 \pm 0.07 \,^{+0.15}_{-0.11}$	1.06 ± 0.03	$0.48^{+0.11}_{-0.13}$	$0.42^{+0.38}_{-0.18}$
$130.0 - 200.0$	154.2	$0.032 \pm 0.013 \,^{+0.009}_{-0.007}$	1.06 ± 0.07	$0.029^{+0.008}_{-0.008}$	$0.020^{+0.018}_{-0.009}$

TABLE X: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of electron pseudorapidity for events with one or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown).

$1/\sigma_W \cdot d\sigma/d\eta^{\text{electron}}$ [one-jet bin] ($1/\Delta y$)				
Bin interval η^{e}	Bin center η^{e}	Measurement ($\times 10^{-3}$)	npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-3}$)
$-1.1 - -0.8$	-1.0	$47.8 \pm 0.2 \,^{+4.6}_{-3.2}$	1.02 ± 0.02	$50.3^{+2.8}_{-3.2}$
$-0.8 - -0.6$	-0.7	$51.1 \pm 0.2 \,^{+4.9}_{-3.4}$	1.01 ± 0.02	$54.0^{+2.7}_{-3.2}$
$-0.6 - -0.4$	-0.5	$51.5 \pm 0.2 \,^{+4.9}_{-3.4}$	1.01 ± 0.02	$57.2^{+3.0}_{-3.5}$
$-0.4 - -0.2$	-0.3	$51.5 \pm 0.2 \,^{+4.9}_{-3.4}$	1.01 ± 0.02	$58.3^{+2.8}_{-3.5}$
$-0.2 - 0.0$	-0.1	$51.1 \pm 0.2 \,^{+4.8}_{-3.3}$	1.01 ± 0.02	$58.8^{+2.9}_{-3.4}$
$0.0 - 0.2$	0.1	$51.4 \pm 0.2 \,^{+4.8}_{-3.5}$	1.01 ± 0.02	$58.8^{+2.9}_{-3.4}$
$0.2 - 0.4$	0.3	$51.7 \pm 0.2 \,^{+4.9}_{-3.4}$	1.01 ± 0.02	$58.3^{+2.8}_{-3.5}$
$0.4 - 0.6$	0.5	$51.7 \pm 0.2 \,^{+4.9}_{-3.4}$	1.01 ± 0.02	$57.2^{+3.0}_{-3.5}$
$0.6 - 0.8$	0.7	$51.3 \pm 0.2 \,^{+4.9}_{-3.5}$	1.01 ± 0.02	$54.1^{+2.7}_{-3.2}$
$0.8 - 1.1$	1.0	$48.3 \pm 0.2 \,^{+4.6}_{-3.3}$	1.02 ± 0.02	$50.3^{+2.8}_{-3.2}$

TABLE XI: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of electron pseudorapidity for events with two or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/d\eta^{\text{electron}}$ [two-jet bin] $(1/\Delta y)$							
Bin interval η^{e}	Bin center η^{e}	Measurement $(\times 10^{-3})$			npQCD correction	NLO BLACKHAT+SHERPA $(\times 10^{-3})$	HEJ $(\times 10^{-3})$
$-1.1 - -0.8$	-0.9	$7.4\pm$	0.1	$^{+1.3}_{-0.8}$	1.06 ± 0.03	$8.1^{+0.7}_{-1.0}$	$7.6^{+3.4}_{-2.1}$
$-0.8 - -0.6$	-0.7	$7.9\pm$	0.1	$^{+1.3}_{-0.9}$	1.06 ± 0.03	$8.7^{+0.6}_{-1.0}$	$8.4^{+3.7}_{-2.3}$
$-0.6 - -0.4$	-0.5	$7.9\pm$	0.1	$^{+1.3}_{-0.9}$	1.06 ± 0.03	$9.2^{+0.7}_{-1.1}$	$8.9^{+3.9}_{-2.5}$
$-0.4 - -0.2$	-0.3	$7.9\pm$	0.1	$^{+1.3}_{-0.9}$	1.05 ± 0.02	$9.3^{+0.6}_{-1.0}$	$9.2^{+4.0}_{-2.5}$
$-0.2 - 0.0$	-0.1	$7.8\pm$	0.1	$^{+1.3}_{-0.9}$	1.05 ± 0.03	$9.6^{+0.7}_{-1.1}$	$9.3^{+4.0}_{-2.5}$
$0.0 - 0.2$	0.1	$7.9\pm$	0.1	$^{+1.3}_{-0.9}$	1.05 ± 0.03	$9.6^{+0.7}_{-1.1}$	$9.2^{+4.0}_{-2.5}$
$0.2 - 0.4$	0.3	$8.0\pm$	0.1	$^{+1.3}_{-0.9}$	1.05 ± 0.02	$9.3^{+0.6}_{-1.0}$	$9.3^{+4.0}_{-2.5}$
$0.4 - 0.6$	0.5	$8.0\pm$	0.1	$^{+1.3}_{-0.9}$	1.06 ± 0.03	$9.2^{+0.7}_{-1.1}$	$9.0^{+3.9}_{-2.5}$
$0.6 - 0.8$	0.7	$8.0\pm$	0.1	$^{+1.3}_{-0.9}$	1.06 ± 0.03	$8.7^{+0.6}_{-1.0}$	$8.6^{+3.8}_{-2.4}$
$0.8 - 1.1$	0.9	$7.5\pm$	0.1	$^{+1.2}_{-0.8}$	1.06 ± 0.03	$8.1^{+0.7}_{-1.0}$	$7.7^{+3.4}_{-2.1}$

TABLE XII: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of electron pseudorapidity for events with three or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/d\eta^{\text{electron}}$ [three-jet bin] $(1/\Delta y)$							
Bin interval η^{e}	Bin center η^{e}	Measurement $(\times 10^{-3})$			npQCD correction	NLO BLACKHAT+SHERPA $(\times 10^{-3})$	HEJ $(\times 10^{-3})$
$-1.1 - -0.8$	-0.9	$1.06\pm$	0.04	$^{+0.24}_{-0.16}$	1.09 ± 0.04	$1.08^{+0.12}_{-0.19}$	$1.06^{+0.74}_{-0.40}$
$-0.8 - -0.6$	-0.7	$1.16\pm$	0.04	$^{+0.26}_{-0.17}$	1.12 ± 0.05	$1.21^{+0.15}_{-0.21}$	$1.19^{+0.81}_{-0.44}$
$-0.6 - -0.4$	-0.5	$1.18\pm$	0.04	$^{+0.26}_{-0.18}$	1.07 ± 0.04	$1.23^{+0.17}_{-0.22}$	$1.21^{+0.84}_{-0.45}$
$-0.4 - -0.2$	-0.3	$1.19\pm$	0.04	$^{+0.27}_{-0.18}$	1.10 ± 0.04	$1.29^{+0.17}_{-0.23}$	$1.25^{+0.86}_{-0.46}$
$-0.2 - 0.0$	-0.1	$1.19\pm$	0.04	$^{+0.27}_{-0.18}$	1.09 ± 0.05	$1.30^{+0.18}_{-0.23}$	$1.28^{+0.88}_{-0.47}$
$0.0 - 0.2$	0.1	$1.20\pm$	0.04	$^{+0.27}_{-0.18}$	1.09 ± 0.05	$1.30^{+0.18}_{-0.23}$	$1.27^{+0.87}_{-0.47}$
$0.2 - 0.4$	0.3	$1.22\pm$	0.04	$^{+0.28}_{-0.18}$	1.10 ± 0.04	$1.29^{+0.17}_{-0.23}$	$1.27^{+0.85}_{-0.46}$
$0.4 - 0.6$	0.5	$1.20\pm$	0.04	$^{+0.27}_{-0.18}$	1.07 ± 0.04	$1.23^{+0.17}_{-0.22}$	$1.24^{+0.85}_{-0.46}$
$0.6 - 0.8$	0.7	$1.16\pm$	0.04	$^{+0.26}_{-0.17}$	1.12 ± 0.05	$1.21^{+0.15}_{-0.21}$	$1.23^{+0.84}_{-0.46}$
$0.8 - 1.1$	0.9	$1.07\pm$	0.04	$^{+0.23}_{-0.16}$	1.09 ± 0.04	$1.08^{+0.12}_{-0.19}$	$1.08^{+0.76}_{-0.41}$

TABLE XIII: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of electron pseudorapidity for events with four or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/d\eta^{\text{electron}}$ [four-jet bin] $(1/\Delta y)$				
Bin interval η^{e}	Bin center η^{e}	Measurement $(\times 10^{-3})$	npQCD correction	NLO BLACKHAT+SHERPA $(\times 10^{-3})$	HEJ $(\times 10^{-3})$
$-1.1 - -0.6$	-0.8	$0.15 \pm 0.01^{+0.05}_{-0.03}$	1.21 ± 0.14	$0.14^{+0.04}_{-0.04}$	$0.12^{+0.11}_{-0.05}$
$-0.6 - -0.2$	-0.4	$0.17 \pm 0.01^{+0.05}_{-0.04}$	1.19 ± 0.08	$0.15^{+0.04}_{-0.04}$	$0.13^{+0.12}_{-0.06}$
$-0.2 - 0.2$	0.0	$0.17 \pm 0.01^{+0.05}_{-0.04}$	1.16 ± 0.05	$0.15^{+0.04}_{-0.04}$	$0.13^{+0.12}_{-0.06}$
$0.2 - 0.6$	0.4	$0.17 \pm 0.01^{+0.05}_{-0.04}$	1.19 ± 0.08	$0.15^{+0.04}_{-0.04}$	$0.13^{+0.12}_{-0.06}$
$0.6 - 1.1$	0.8	$0.14 \pm 0.01^{+0.05}_{-0.03}$	1.21 ± 0.14	$0.14^{+0.04}_{-0.04}$	$0.11^{+0.11}_{-0.05}$

TABLE XIV: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of dijet rapidity separation of the leading two jets for events with two or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/d\Delta y_{12}$ [two-jet bin] $(1/\Delta y)$				
Bin interval Δy	Bin center Δy	Measurement $(\times 10^{-3})$	npQCD correction	NLO BLACKHAT+SHERPA $(\times 10^{-3})$	HEJ $(\times 10^{-3})$
$0.0 - 0.4$	0.2	$7.47 \pm 0.08^{+0.96}_{-0.70}$	1.05 ± 0.04	$8.13^{+0.63}_{-0.91}$	$9.14^{+3.95}_{-2.51}$
$0.4 - 0.8$	0.6	$7.94 \pm 0.08^{+1.06}_{-0.76}$	1.06 ± 0.03	$8.45^{+0.68}_{-0.97}$	$8.71^{+3.71}_{-2.37}$
$0.8 - 1.2$	1.0	$7.46 \pm 0.07^{+1.07}_{-0.75}$	1.03 ± 0.03	$8.25^{+0.69}_{-0.97}$	$8.26^{+3.51}_{-2.24}$
$1.2 - 1.6$	1.4	$6.08 \pm 0.06^{+0.99}_{-0.67}$	1.02 ± 0.03	$6.69^{+0.49}_{-0.75}$	$6.58^{+2.82}_{-1.79}$
$1.6 - 2.1$	1.9	$4.67 \pm 0.05^{+0.90}_{-0.57}$	1.04 ± 0.03	$5.21^{+0.34}_{-0.59}$	$4.80^{+2.09}_{-1.32}$
$2.1 - 2.6$	2.3	$3.10 \pm 0.04^{+0.70}_{-0.43}$	1.07 ± 0.03	$3.79^{+0.32}_{-0.47}$	$3.17^{+1.41}_{-0.88}$
$2.6 - 3.2$	2.9	$1.67 \pm 0.03^{+0.43}_{-0.25}$	1.10 ± 0.04	$2.23^{+0.10}_{-0.25}$	$1.82^{+0.84}_{-0.52}$
$3.2 - 4.0$	3.6	$0.60 \pm 0.01^{+0.17}_{-0.09}$	1.15 ± 0.04	$1.01^{+0.05}_{-0.12}$	$0.77^{+0.38}_{-0.23}$
$4.0 - 5.0$	4.4	$0.11 \pm 0.00^{+0.03}_{-0.02}$	1.31 ± 0.07	$0.26^{+0.01}_{-0.03}$	$0.19^{+0.11}_{-0.06}$
$5.0 - 6.0$	5.4	$0.007 \pm 0.001^{+0.002}_{-0.001}$	1.69 ± 0.06	$0.028^{+0.001}_{-0.003}$	$0.019^{+0.012}_{-0.007}$

TABLE XV: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of dijet rapidity separation of the two most rapidity-separated jets for events with two or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/d\Delta y_{\rm FB}$ [two-jet bin] $(1/\Delta y)$				
Bin interval Δy	Bin center Δy	Measurement $(\times 10^{-3})$	npQCD correction	NLO BLACKHAT+SHERPA $(\times 10^{-3})$	HEJ $(\times 10^{-3})$
$0.0-0.4$	0.2	$6.45\pm 0.08\,^{+0.79}_{-0.59}$	1.04 ± 0.04	$7.45^{+0.27}_{-0.70}$	$8.12^{+3.27}_{-2.14}$
$0.4-0.8$	0.6	$7.34\pm 0.08\,^{+0.97}_{-0.67}$	1.06 ± 0.03	$7.97^{+0.42}_{-0.81}$	$7.97^{+3.20}_{-2.09}$
$0.8-1.2$	1.0	$7.14\pm 0.08\,^{+0.96}_{-0.68}$	1.03 ± 0.03	$8.03^{+0.57}_{-0.90}$	$7.88^{+3.23}_{-2.09}$
$1.2-1.6$	1.4	$6.04\pm 0.07\,^{+0.88}_{-0.62}$	1.02 ± 0.02	$6.70^{+0.48}_{-0.75}$	$6.59^{+2.79}_{-1.78}$
$1.6-2.1$	1.9	$4.91\pm 0.06\,^{+0.89}_{-0.58}$	1.05 ± 0.02	$5.38^{+0.43}_{-0.64}$	$5.05^{+2.23}_{-1.40}$
$2.1-2.6$	2.4	$3.51\pm 0.05\,^{+0.84}_{-0.52}$	1.06 ± 0.02	$4.03^{+0.46}_{-0.55}$	$3.56^{+1.66}_{-1.02}$
$2.6-3.2$	2.9	$2.18\pm 0.04\,^{+0.69}_{-0.39}$	1.10 ± 0.03	$2.46^{+0.24}_{-0.33}$	$2.19^{+1.10}_{-0.66}$
$3.2-4.0$	3.6	$0.92\pm 0.02\,^{+0.35}_{-0.18}$	1.14 ± 0.03	$1.16^{+0.15}_{-0.18}$	$1.02^{+0.57}_{-0.33}$
$4.0-5.0$	4.4	$0.19\pm 0.01\,^{+0.08}_{-0.04}$	1.28 ± 0.02	$0.31^{+0.04}_{-0.05}$	$0.29^{+0.20}_{-0.10}$
$5.0-6.0$	5.4	$0.013\pm 0.002\,^{+0.006}_{-0.003}$	1.69 ± 0.11	$0.036^{+0.007}_{-0.007}$	$0.033^{+0.027}_{-0.013}$

TABLE XVI: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of dijet rapidity separation of the leading two jets for events with three or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/d\Delta y_{12}$ [three-jet bin] $(1/\Delta y)$				
Bin interval Δy	Bin center Δy	Measurement $(\times 10^{-3})$	npQCD correction	NLO BLACKHAT+SHERPA $(\times 10^{-3})$	HEJ $(\times 10^{-3})$
$0.0-0.4$	0.2	$1.13\pm 0.04\,^{+0.23}_{-0.16}$	1.09 ± 0.05	$1.13^{+0.17}_{-0.20}$	$1.14^{+0.76}_{-0.42}$
$0.4-0.8$	0.6	$1.14\pm 0.04\,^{+0.23}_{-0.16}$	1.09 ± 0.03	$1.16^{+0.17}_{-0.21}$	$1.15^{+0.76}_{-0.42}$
$0.8-1.2$	1.0	$1.03\pm 0.04\,^{+0.22}_{-0.15}$	1.09 ± 0.05	$1.11^{+0.15}_{-0.19}$	$1.12^{+0.75}_{-0.41}$
$1.2-1.6$	1.4	$0.94\pm 0.03\,^{+0.20}_{-0.14}$	1.04 ± 0.03	$0.90^{+0.13}_{-0.16}$	$0.91^{+0.62}_{-0.34}$
$1.6-2.1$	1.9	$0.73\pm 0.02\,^{+0.17}_{-0.11}$	1.07 ± 0.06	$0.66^{+0.03}_{-0.10}$	$0.71^{+0.49}_{-0.26}$
$2.1-2.6$	2.4	$0.48\pm 0.02\,^{+0.12}_{-0.07}$	1.08 ± 0.03	$0.52^{+0.08}_{-0.10}$	$0.48^{+0.34}_{-0.18}$
$2.6-3.2$	2.9	$0.26\pm 0.02\,^{+0.06}_{-0.04}$	1.15 ± 0.07	$0.33^{+0.04}_{-0.06}$	$0.28^{+0.21}_{-0.11}$
$3.2-4.0$	3.5	$0.10\pm 0.01\,^{+0.02}_{-0.01}$	1.17 ± 0.04	$0.14^{+0.02}_{-0.03}$	$0.14^{+0.10}_{-0.05}$
$4.0-5.0$	4.4	$0.018\pm 0.003\,^{+0.004}_{-0.003}$	1.30 ± 0.02	$0.040^{+0.003}_{-0.008}$	$0.034^{+0.028}_{-0.014}$

TABLE XVII: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of dijet rapidity separation of the two most rapidity-separated jets for events with three or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/d\Delta y_{\rm FB}$ [three-jet bin] $(1/\Delta y)$				
Bin interval Δy	Bin center Δy	Measurement $(\times 10^{-3})$	npQCD correction	NLO BLACKHAT+SHERPA $(\times 10^{-3})$	HEJ $(\times 10^{-3})$
$0.0-0.4$	0.2	$0.13\pm 0.01 {}^{+0.02}_{-0.02}$	1.04 ± 0.03	$0.11^{+0.01}_{-0.02}$	$0.12^{+0.08}_{-0.04}$
$0.4-0.8$	0.6	$0.40\pm 0.02 {}^{+0.07}_{-0.05}$	1.09 ± 0.04	$0.43^{+0.07}_{-0.08}$	$0.40^{+0.25}_{-0.14}$
$0.8-1.2$	1.0	$0.71\pm 0.03 {}^{+0.12}_{-0.09}$	1.10 ± 0.07	$0.76^{+0.09}_{-0.13}$	$0.74^{+0.47}_{-0.26}$
$1.2-1.6$	1.4	$0.96\pm 0.03 {}^{+0.17}_{-0.12}$	1.05 ± 0.01	$0.92^{+0.13}_{-0.16}$	$0.91^{+0.59}_{-0.33}$
$1.6-2.1$	1.9	$1.01\pm 0.03 {}^{+0.20}_{-0.14}$	1.08 ± 0.05	$0.94^{+0.11}_{-0.16}$	$0.96^{+0.63}_{-0.35}$
$2.1-2.6$	2.4	$0.87\pm 0.03 {}^{+0.22}_{-0.14}$	1.07 ± 0.05	$0.87^{+0.12}_{-0.15}$	$0.87^{+0.59}_{-0.32}$
$2.6-3.2$	2.9	$0.67\pm 0.02 {}^{+0.22}_{-0.13}$	1.11 ± 0.05	$0.70^{+0.11}_{-0.13}$	$0.65^{+0.47}_{-0.25}$
$3.2-4.0$	3.6	$0.36\pm 0.02 {}^{+0.14}_{-0.08}$	1.12 ± 0.05	$0.37^{+0.03}_{-0.06}$	$0.38^{+0.29}_{-0.15}$
$4.0-5.0$	4.4	$0.09\pm 0.01 {}^{+0.04}_{-0.02}$	1.20 ± 0.04	$0.13^{+0.02}_{-0.03}$	$0.13^{+0.11}_{-0.05}$
$5.0-6.0$	5.4	$0.006\pm 0.001 {}^{+0.004}_{-0.002}$	1.64 ± 0.39	$0.025^{+0.005}_{-0.007}$	$0.018^{+0.019}_{-0.008}$

TABLE XVIII: The measured differential cross sections, normalized to the measured inclusive W boson cross section, as a function of $\Delta\phi$ separation between the leading two jets and between the two most rapidity-separated jets for events with two or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/d\Delta\phi_{12}$ [two-jet bin] $(1/\Delta\phi)$				
Bin interval $\Delta\phi$	Bin center $\Delta\phi$	Measurement $(\times 10^{-3})$	npQCD correction	NLO BLACKHAT+SHERPA $(\times 10^{-3})$	HEJ $(\times 10^{-3})$
$0.0-0.3$	0.2	$2.07\pm 0.04^{+0.47}_{-0.28}$	1.08 ± 0.03	$2.36^{+0.24}_{-0.30}$	$2.24^{+1.01}_{-0.63}$
$0.3-0.6$	0.5	$2.51\pm 0.05^{+0.56}_{-0.34}$	1.08 ± 0.03	$2.81^{+0.34}_{-0.38}$	$2.79^{+1.24}_{-0.78}$
$0.6-0.9$	0.7	$3.63\pm 0.06^{+0.78}_{-0.48}$	1.09 ± 0.02	$3.53^{+0.29}_{-0.41}$	$3.51^{+1.55}_{-0.97}$
$0.9-1.1$	1.0	$3.64\pm 0.07^{+0.76}_{-0.48}$	1.01 ± 0.03	$4.02^{+0.37}_{-0.48}$	$4.46^{+1.95}_{-1.23}$
$1.1-1.4$	1.2	$3.47\pm 0.06^{+0.69}_{-0.44}$	0.99 ± 0.03	$3.93^{+0.32}_{-0.46}$	$4.38^{+1.94}_{-1.22}$
$1.4-1.6$	1.5	$3.65\pm 0.06^{+0.69}_{-0.45}$	0.99 ± 0.03	$4.17^{+0.27}_{-0.46}$	$4.62^{+2.05}_{-1.29}$
$1.6-1.8$	1.7	$4.14\pm 0.07^{+0.74}_{-0.48}$	0.99 ± 0.02	$4.82^{+0.35}_{-0.56}$	$5.11^{+2.29}_{-1.43}$
$1.8-2.0$	1.9	$4.82\pm 0.08^{+0.80}_{-0.54}$	1.00 ± 0.03	$5.60^{+0.41}_{-0.63}$	$5.92^{+2.59}_{-1.64}$
$2.0-2.2$	2.1	$5.78\pm 0.09^{+0.89}_{-0.60}$	1.02 ± 0.04	$7.05^{+0.63}_{-0.86}$	$6.74^{+2.94}_{-1.86}$
$2.2-2.4$	2.3	$6.92\pm 0.09^{+0.98}_{-0.69}$	1.02 ± 0.01	$7.83^{+0.48}_{-0.85}$	$7.92^{+3.45}_{-2.18}$
$2.4-2.6$	2.5	$8.42\pm 0.10^{+1.13}_{-0.80}$	1.04 ± 0.02	$9.66^{+0.64}_{-1.07}$	$9.27^{+4.00}_{-2.54}$
$2.6-2.8$	2.7	$9.99\pm 0.12^{+1.29}_{-0.93}$	1.07 ± 0.02	$11.82^{+0.91}_{-1.39}$	$10.61^{+4.57}_{-2.90}$
$2.8-3.0$	2.9	$11.35\pm 0.14^{+1.44}_{-1.05}$	1.11 ± 0.02	$13.26^{+0.74}_{-1.44}$	$11.80^{+5.08}_{-3.22}$
$3.0-3.2$	3.1	$9.69\pm 0.12^{+1.23}_{-0.90}$	1.19 ± 0.05	$10.53^{+0.63}_{-1.17}$	$8.78^{+3.77}_{-2.39}$

$1/\sigma_W \cdot d\sigma/d\Delta\phi_{\mathrm{FB}}$ [two-jet bin] $(1/\Delta\phi)$				
Bin interval $\Delta\phi$	Bin center $\Delta\phi$	Measurement $(\times 10^{-3})$	npQCD correction	NLO BLACKHAT+SHERPA $(\times 10^{-3})$	HEJ $(\times 10^{-3})$
$0.0-0.3$	0.2	$2.35\pm 0.05^{+0.54}_{-0.32}$	1.07 ± 0.03	$2.54^{+0.35}_{-0.36}$	$2.53^{+1.21}_{-0.74}$
$0.3-0.6$	0.5	$2.73\pm 0.05^{+0.61}_{-0.37}$	1.07 ± 0.03	$2.97^{+0.43}_{-0.44}$	$3.05^{+1.43}_{-0.88}$
$0.6-0.9$	0.7	$3.67\pm 0.07^{+0.77}_{-0.48}$	1.08 ± 0.03	$3.64^{+0.37}_{-0.46}$	$3.75^{+1.72}_{-1.06}$
$0.9-1.1$	1.0	$3.64\pm 0.07^{+0.74}_{-0.47}$	1.00 ± 0.03	$4.09^{+0.41}_{-0.50}$	$4.61^{+2.06}_{-1.29}$
$1.1-1.4$	1.2	$3.53\pm 0.06^{+0.70}_{-0.45}$	0.99 ± 0.03	$4.03^{+0.38}_{-0.50}$	$4.56^{+2.06}_{-1.28}$
$1.4-1.6$	1.5	$3.77\pm 0.07^{+0.72}_{-0.46}$	1.00 ± 0.03	$4.28^{+0.31}_{-0.49}$	$4.76^{+2.14}_{-1.34}$
$1.6-1.8$	1.7	$4.26\pm 0.08^{+0.78}_{-0.51}$	1.00 ± 0.02	$4.90^{+0.39}_{-0.58}$	$5.18^{+2.35}_{-1.46}$
$1.8-2.0$	1.9	$4.89\pm 0.09^{+0.83}_{-0.55}$	1.00 ± 0.03	$5.65^{+0.43}_{-0.65}$	$5.94^{+2.62}_{-1.65}$
$2.0-2.2$	2.1	$5.79\pm 0.10^{+0.88}_{-0.61}$	1.02 ± 0.04	$7.03^{+0.62}_{-0.85}$	$6.71^{+2.92}_{-1.85}$
$2.2-2.4$	2.3	$6.83\pm 0.11^{+0.95}_{-0.67}$	1.01 ± 0.01	$7.73^{+0.43}_{-0.82}$	$7.79^{+3.35}_{-2.13}$
$2.4-2.6$	2.5	$8.24\pm 0.12^{+1.06}_{-0.77}$	1.04 ± 0.02	$9.45^{+0.53}_{-1.01}$	$9.01^{+3.81}_{-2.44}$
$2.6-2.8$	2.7	$9.80\pm 0.13^{+1.22}_{-0.88}$	1.07 ± 0.02	$11.55^{+0.76}_{-1.30}$	$10.19^{+4.28}_{-2.74}$
$2.8-3.0$	2.9	$11.03\pm 0.14^{+1.40}_{-1.01}$	1.12 ± 0.02	$13.01^{+0.54}_{-1.34}$	$11.28^{+4.71}_{-3.02}$
$3.0-3.2$	3.1	$9.24\pm 0.14^{+1.20}_{-0.89}$	1.20 ± 0.05	$10.32^{+0.45}_{-1.07}$	$8.34^{+3.45}_{-2.22}$

TABLE XIX: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of ΔR separation between the two leading jets for events with two or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/d\Delta R_{\rm jj}$ [two-jet bin] $(1/\Delta R)$				
Bin interval ΔR	Bin center ΔR	Measurement $(\times 10^{-3})$	npQCD correction	NLO BLACKHAT+SHERPA $(\times 10^{-3})$	HEJ $(\times 10^{-3})$
$0.6-1.0$	0.8	$2.48\pm 0.04^{+0.48}_{-0.36}$	1.27 ± 0.04	$2.32^{+0.40}_{-0.36}$	$1.79^{+0.75}_{-0.48}$
$1.0-1.4$	1.2	$3.14\pm 0.05^{+0.55}_{-0.37}$	0.98 ± 0.03	$3.24^{+0.23}_{-0.36}$	$3.88^{+1.67}_{-1.06}$
$1.4-1.8$	1.6	$3.26\pm 0.05^{+0.56}_{-0.38}$	0.98 ± 0.03	$3.65^{+0.25}_{-0.39}$	$4.30^{+1.87}_{-1.18}$
$1.8-2.2$	2.0	$4.12\pm 0.06^{+0.69}_{-0.46}$	1.00 ± 0.02	$4.76^{+0.40}_{-0.55}$	$5.20^{+2.26}_{-1.43}$
$2.2-2.5$	2.3	$5.43\pm 0.08^{+0.88}_{-0.56}$	1.01 ± 0.03	$6.17^{+0.47}_{-0.70}$	$6.56^{+2.86}_{-1.81}$
$2.5-2.8$	2.6	$7.20\pm 0.09^{+1.05}_{-0.69}$	1.01 ± 0.01	$8.07^{+0.61}_{-0.90}$	$8.31^{+3.60}_{-2.28}$
$2.8-3.0$	2.9	$9.24\pm 0.11^{+1.20}_{-0.83}$	1.04 ± 0.03	$10.43^{+0.81}_{-1.21}$	$10.31^{+4.43}_{-2.82}$
$3.0-3.2$	3.1	$10.61\pm 0.13^{+1.39}_{-0.99}$	1.07 ± 0.04	$11.27^{+0.56}_{-1.17}$	$10.95^{+4.73}_{-2.99}$
$3.2-3.5$	3.4	$6.17\pm 0.08^{+1.02}_{-0.71}$	1.08 ± 0.02	$6.90^{+0.54}_{-0.82}$	$5.79^{+2.51}_{-1.58}$
$3.5-3.9$	3.7	$3.16\pm 0.05^{+0.70}_{-0.44}$	1.10 ± 0.02	$3.70^{+0.23}_{-0.44}$	$2.90^{+1.29}_{-0.81}$
$3.9-4.5$	4.2	$1.23\pm 0.03^{+0.33}_{-0.19}$	1.21 ± 0.03	$1.62^{+0.04}_{-0.16}$	$1.21^{+0.57}_{-0.35}$
$4.5-6.0$	5.0	$0.15\pm 0.00^{+0.04}_{-0.02}$	1.33 ± 0.00	$0.34^{+0.04}_{-0.05}$	$0.19^{+0.11}_{-0.06}$

TABLE XX: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of the dijet rapidity separation of the leading and third jets for events with three or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/d\Delta y_{13}$ [three-jet bin] $(1/\Delta y)$				
Bin interval Δy	Bin center Δy	Measurement $(\times 10^{-3})$	npQCD correction	NLO BLACKHAT+SHERPA $(\times 10^{-3})$	HEJ $(\times 10^{-3})$
$0.0-0.4$	0.1	$1.13\pm 0.04^{+0.21}_{-0.15}$	1.08 ± 0.06	$1.08^{+0.15}_{-0.19}$	$1.09^{+0.72}_{-0.40}$
$0.4-0.8$	0.6	$1.19\pm 0.04^{+0.23}_{-0.16}$	1.10 ± 0.06	$1.17^{+0.17}_{-0.21}$	$1.13^{+0.75}_{-0.41}$
$0.8-1.2$	1.0	$1.10\pm 0.04^{+0.21}_{-0.15}$	1.08 ± 0.04	$1.07^{+0.14}_{-0.18}$	$1.09^{+0.73}_{-0.40}$
$1.2-1.6$	1.4	$0.83\pm 0.03^{+0.18}_{-0.12}$	1.09 ± 0.04	$0.88^{+0.08}_{-0.14}$	$0.89^{+0.60}_{-0.33}$
$1.6-2.1$	1.8	$0.64\pm 0.03^{+0.16}_{-0.11}$	1.07 ± 0.04	$0.69^{+0.08}_{-0.12}$	$0.70^{+0.48}_{-0.26}$
$2.1-2.6$	2.3	$0.49\pm 0.02^{+0.15}_{-0.09}$	1.08 ± 0.01	$0.51^{+0.07}_{-0.09}$	$0.51^{+0.36}_{-0.19}$
$2.6-3.2$	2.9	$0.31\pm 0.02^{+0.12}_{-0.07}$	1.14 ± 0.06	$0.34^{+0.05}_{-0.06}$	$0.31^{+0.23}_{-0.12}$
$3.2-4.0$	3.6	$0.13\pm 0.01^{+0.05}_{-0.03}$	1.14 ± 0.06	$0.15^{+0.02}_{-0.03}$	$0.14^{+0.11}_{-0.06}$
$4.0-5.0$	4.4	$0.027\pm 0.003^{+0.013}_{-0.008}$	1.17 ± 0.09	$0.043^{+0.005}_{-0.008}$	$0.046^{+0.039}_{-0.019}$
$5.0-6.0$	5.2	$0.002\pm 0.001^{+0.001}_{-0.001}$	1.20 ± 0.10	$0.008^{+0.002}_{-0.003}$	$0.005^{+0.005}_{-0.002}$

TABLE XXI: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of the dijet rapidity separation of the second and third jets for events with three or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/d\Delta y_{23}$ [three-jet bin] $(1/\Delta y)$				
Bin interval Δy	Bin center Δy	Measurement $(\times 10^{-3})$	npQCD correction	NLO BLACKHAT+SHERPA $(\times 10^{-3})$	HEJ $(\times 10^{-3})$
$0.0-0.4$	0.2	$1.08\pm 0.04^{+0.20}_{-0.15}$	1.08 ± 0.04	$0.94^{+0.12}_{-0.16}$	$1.00^{+0.66}_{-0.36}$
$0.4-0.8$	0.6	$1.13\pm 0.04^{+0.21}_{-0.15}$	1.10 ± 0.02	$1.12^{+0.19}_{-0.21}$	$1.03^{+0.69}_{-0.38}$
$0.8-1.2$	1.0	$1.09\pm 0.04^{+0.22}_{-0.15}$	1.08 ± 0.05	$1.12^{+0.15}_{-0.20}$	$1.09^{+0.73}_{-0.40}$
$1.2-1.6$	1.4	$0.88\pm 0.03^{+0.18}_{-0.13}$	1.05 ± 0.03	$0.90^{+0.12}_{-0.16}$	$0.90^{+0.61}_{-0.33}$
$1.6-2.1$	1.9	$0.66\pm 0.02^{+0.16}_{-0.10}$	1.10 ± 0.06	$0.74^{+0.10}_{-0.13}$	$0.72^{+0.49}_{-0.27}$
$2.1-2.6$	2.4	$0.47\pm 0.02^{+0.14}_{-0.09}$	1.11 ± 0.08	$0.55^{+0.08}_{-0.10}$	$0.52^{+0.37}_{-0.20}$
$2.6-3.2$	2.9	$0.31\pm 0.02^{+0.11}_{-0.06}$	1.09 ± 0.02	$0.33^{+0.04}_{-0.06}$	$0.33^{+0.24}_{-0.13}$
$3.2-4.0$	3.6	$0.14\pm 0.01^{+0.06}_{-0.03}$	1.15 ± 0.05	$0.15^{+0.00}_{-0.02}$	$0.18^{+0.13}_{-0.07}$
$4.0-5.0$	4.4	$0.028\pm 0.003^{+0.013}_{-0.007}$	1.22 ± 0.02	$0.057^{+0.004}_{-0.012}$	$0.053^{+0.045}_{-0.022}$
$5.0-6.0$	5.4	$0.002\pm 0.001^{+0.001}_{-0.001}$	1.46 ± 0.14	$0.009^{+0.001}_{-0.002}$	$0.008^{+0.008}_{-0.004}$

TABLE XXII: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of the W boson transverse momentum for events with one or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown).

$1/\sigma_W \cdot d\sigma/dp_T^W$ [one-jet bin] (GeV^{-1})				
Bin interval (GeV)	Bin center (GeV)	Measurement ($\times 10^{-6}$)	npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-6}$)
$0.0 - 10.0$	4.3	$625 \pm 7 \; ^{+804}_{-236}$	2.21 ± 1.22	450^{+167}_{-112}
$10.0 - 20.0$	15.6	$1823 \pm 13 \; ^{+1331}_{-553}$	1.11 ± 0.13	2256^{+803}_{-544}
$20.0 - 30.0$	22.3	$3798 \pm 19 \; ^{+250}_{-266}$	0.93 ± 0.05	3320^{+247}_{-565}
$30.0 - 40.0$	34.9	$2189 \pm 16 \; ^{+156}_{-147}$	0.97 ± 0.03	2787^{+175}_{-189}
$40.0 - 50.0$	44.7	$1164 \pm 11 \; ^{+58}_{-48}$	0.99 ± 0.01	1442^{+102}_{-109}
$50.0 - 65.0$	56.9	$584 \pm 5 \; ^{+19}_{-20}$	1.00 ± 0.01	679^{+51}_{-54}
$65.0 - 80.0$	71.9	$251.7 \pm 2.8 \; ^{+5.7}_{-8.0}$	1.00 ± 0.01	$281.2^{+19.8}_{-21.9}$
$80.0 - 100.0$	89.2	$106.2 \pm 1.4 \; ^{+2.3}_{-3.7}$	1.00 ± 0.00	$119.7^{+9.3}_{-9.9}$
$100.0 - 135.0$	115.4	$34.74 \pm 0.47 \; ^{+0.73}_{-1.29}$	1.00 ± 0.01	$37.27^{+2.92}_{-3.07}$
$135.0 - 200.0$	162.6	$6.43 \pm 0.15 \; ^{+0.14}_{-0.26}$	1.01 ± 0.00	$6.75^{+0.54}_{-0.55}$
$200.0 - 300.0$	239.0	$0.582 \pm 0.032 \; ^{+0.019}_{-0.028}$	1.00 ± 0.01	$0.610^{+0.053}_{-0.060}$

TABLE XXIII: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of the W boson transverse momentum for events with two or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/dp_T^W$ [two-jet bin] (GeV^{-1})					
Bin interval (GeV)	Bin center (GeV)	Measurement ($\times 10^{-6}$)	npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-6}$)	HEJ ($\times 10^{-6}$)
$0.0 - 15.0$	6.8	$214 \pm 4 \; ^{+47}_{-30}$	1.34 ± 0.36	230^{+11}_{-24}	175^{+73}_{-47}
$15.0 - 25.0$	19.1	$279 \pm 5 \; ^{+71}_{-40}$	1.08 ± 0.10	325^{+28}_{-39}	294^{+126}_{-80}
$25.0 - 35.0$	30.6	$254 \pm 5 \; ^{+63}_{-37}$	1.04 ± 0.06	307^{+25}_{-37}	297^{+130}_{-82}
$35.0 - 45.0$	39.9	$240 \pm 5 \; ^{+46}_{-31}$	1.00 ± 0.03	277^{+20}_{-32}	288^{+126}_{-79}
$45.0 - 55.0$	50.1	$201 \pm 4 \; ^{+26}_{-20}$	0.98 ± 0.00	227^{+16}_{-26}	248^{+108}_{-68}
$55.0 - 65.0$	59.8	$141 \pm 3 \; ^{+13}_{-11}$	1.00 ± 0.01	163^{+12}_{-19}	171^{+75}_{-47}
$65.0 - 80.0$	72.1	$86.8 \pm 2.1 \; ^{+6.9}_{-6.0}$	1.00 ± 0.01	$98.8^{+8.2}_{-11.7}$	$101.2^{+45.3}_{-28.4}$
$80.0 - 105.0$	91.4	$39.3 \pm 0.9 \; ^{+2.8}_{-2.5}$	1.00 ± 0.00	$43.9^{+3.4}_{-5.0}$	$44.8^{+20.5}_{-12.8}$
$105.0 - 140.0$	120.6	$13.09 \pm 0.38 \; ^{+0.75}_{-0.78}$	1.00 ± 0.00	$14.01^{+0.97}_{-1.52}$	$14.50^{+6.76}_{-4.20}$
$140.0 - 190.0$	161.5	$3.41 \pm 0.14 \; ^{+0.18}_{-0.20}$	0.98 ± 0.01	$3.41^{+0.26}_{-0.38}$	$3.68^{+1.75}_{-1.08}$
$190.0 - 250.0$	215.9	$0.628 \pm 0.049 \; ^{+0.035}_{-0.038}$	0.94 ± 0.04	$0.617^{+0.044}_{-0.070}$	$0.640^{+0.317}_{-0.194}$

TABLE XXIV: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of the W boson transverse momentum for events with three or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/dp_T^W$ [three-jet bin] (GeV^{-1})				
Bin interval (GeV)	Bin center (GeV)	Measurement ($\times 10^{-6}$)	npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-6}$)	HEJ ($\times 10^{-6}$)
$0.0 - 15.0$	7.2	$17.8 \pm 0.7 \; ^{+5.6}_{-3.4}$	1.41 ± 0.09	$21.5^{+3.2}_{-4.1}$	$15.6^{+10.7}_{-5.8}$
$15.0 - 30.0$	21.2	$39.3 \pm 1.2 \; ^{+11.5}_{-7.0}$	1.13 ± 0.06	$38.3^{+3.3}_{-6.4}$	$39.6^{+27.5}_{-14.8}$
$30.0 - 45.0$	38.3	$36.8 \pm 1.0 \; ^{+9.3}_{-6.1}$	1.06 ± 0.02	$37.9^{+4.7}_{-6.6}$	$40.3^{+28.0}_{-15.0}$
$45.0 - 60.0$	52.4	$27.0 \pm 0.9 \; ^{+5.9}_{-4.1}$	1.06 ± 0.05	$29.6^{+4.3}_{-5.3}$	$29.9^{+20.5}_{-11.1}$
$60.0 - 75.0$	67.1	$18.7 \pm 0.7 \; ^{+3.6}_{-2.5}$	1.04 ± 0.05	$19.5^{+2.9}_{-3.5}$	$19.9^{+13.5}_{-7.3}$
$75.0 - 90.0$	82.4	$12.2 \pm 0.6 \; ^{+2.0}_{-1.5}$	1.01 ± 0.03	$12.2^{+1.8}_{-2.2}$	$12.1^{+8.2}_{-4.5}$
$90.0 - 115.0$	101.7	$6.38 \pm 0.29 \; ^{+0.89}_{-0.70}$	1.02 ± 0.02	$6.35^{+0.96}_{-1.11}$	$6.19^{+4.14}_{-2.27}$
$115.0 - 150.0$	130.3	$2.55 \pm 0.16 \; ^{+0.31}_{-0.27}$	0.99 ± 0.02	$2.28^{+0.30}_{-0.39}$	$2.33^{+1.55}_{-0.85}$
$150.0 - 250.0$	190.7	$0.446 \pm 0.036 \; ^{+0.051}_{-0.048}$	1.00 ± 0.06	$0.408^{+0.059}_{-0.070}$	$0.363^{+0.242}_{-0.134}$

TABLE XXV: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of the W boson transverse momentum for events with four or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/dp_T^W$ [four-jet bin] (GeV^{-1})				
Bin interval (GeV)	Bin center (GeV)	Measurement ($\times 10^{-6}$)	npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-6}$)	HEJ ($\times 10^{-6}$)
$0.0 - 20.0$	9.5	$2.38 \pm 0.30 \; ^{+0.97}_{-0.55}$	1.42 ± 0.20	$2.52^{+0.65}_{-0.68}$	$1.81^{+1.70}_{-0.81}$
$20.0 - 35.0$	25.9	$4.7 \pm 0.5 \; ^{+1.8}_{-1.0}$	1.22 ± 0.14	$4.4^{+1.1}_{-1.2}$	$4.0^{+3.6}_{-1.7}$
$35.0 - 50.0$	43.8	$4.8 \pm 0.4 \; ^{+1.6}_{-1.0}$	1.16 ± 0.10	$4.2^{+1.1}_{-1.1}$	$3.5^{+3.3}_{-1.6}$
$50.0 - 70.0$	59.9	$3.5 \pm 0.3 \; ^{+1.1}_{-0.8}$	1.17 ± 0.04	$3.2^{+0.9}_{-0.9}$	$2.6^{+2.4}_{-1.2}$
$70.0 - 100.0$	84.4	$1.78 \pm 0.16 \; ^{+0.49}_{-0.39}$	1.12 ± 0.05	$1.54^{+0.37}_{-0.41}$	$1.42^{+1.31}_{-0.63}$
$100.0 - 135.0$	116.8	$0.67 \pm 0.10 \; ^{+0.17}_{-0.15}$	1.14 ± 0.18	$0.62^{+0.15}_{-0.16}$	$0.48^{+0.43}_{-0.21}$
$135.0 - 200.0$	162.2	$0.169 \pm 0.039 \; ^{+0.043}_{-0.042}$	0.99 ± 0.03	$0.139^{+0.038}_{-0.038}$	$0.117^{+0.103}_{-0.051}$

TABLE XXVI: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of dijet transverse momentum for events with two or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/dp_T^{\mathrm{jj}}$ [two-jet bin] (GeV^{-1})						
Bin interval (GeV)	Bin center (GeV)	Measurement ($\times 10^{-6}$)		npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-6}$)	HEJ ($\times 10^{-6}$)
$0.0 - 10.0$	4.6	169 ± 2	$^{+33}_{-20}$	1.40 ± 0.09	200^{+17}_{-25}	143^{+61}_{-39}
$10.0 - 20.0$	14.4	265 ± 3	$^{+50}_{-31}$	1.13 ± 0.02	311^{+22}_{-36}	270^{+115}_{-73}
$20.0 - 30.0$	20.7	272 ± 3	$^{+50}_{-32}$	1.04 ± 0.03	310^{+23}_{-36}	295^{+126}_{-80}
$30.0 - 40.0$	31.4	251 ± 3	$^{+47}_{-29}$	1.02 ± 0.03	280^{+17}_{-31}	284^{+122}_{-77}
$40.0 - 50.0$	46.2	244 ± 3	$^{+44}_{-28}$	1.03 ± 0.04	283^{+27}_{-35}	274^{+119}_{-75}
$50.0 - 65.0$	57.3	161 ± 2	$^{+25}_{-17}$	1.01 ± 0.03	181^{+13}_{-21}	195^{+86}_{-54}
$65.0 - 80.0$	72.1	85 ± 1	$^{+11}_{-8}$	0.99 ± 0.03	94^{+7}_{-11}	103^{+46}_{-29}
$80.0 - 100.0$	89.1	40.7 ± 0.7	$^{+4.6}_{-3.9}$	0.98 ± 0.03	$45.5^{+3.0}_{-5.0}$	$49.3^{+22.7}_{-14.1}$
$100.0 - 120.0$	109.2	18.1 ± 0.5	$^{+2.0}_{-1.8}$	0.95 ± 0.03	$19.5^{+1.0}_{-2.0}$	$22.2^{+10.9}_{-6.4}$
$120.0 - 145.0$	131.5	7.77 ± 0.28	$^{+0.89}_{-0.83}$	0.96 ± 0.03	$8.92^{+0.54}_{-0.92}$	$9.90^{+4.67}_{-2.89}$
$145.0 - 175.0$	158.5	3.01 ± 0.16	$^{+0.38}_{-0.35}$	0.95 ± 0.04	$3.38^{+0.15}_{-0.33}$	$4.02^{+1.90}_{-1.18}$
$175.0 - 210.0$	190.2	1.09 ± 0.09	$^{+0.15}_{-0.14}$	0.92 ± 0.03	$1.21^{+0.05}_{-0.12}$	$1.43^{+0.69}_{-0.43}$
$210.0 - 260.0$	231.4	0.305 ± 0.037	$^{+0.047}_{-0.043}$	0.88 ± 0.07	$0.338^{+0.021}_{-0.040}$	$0.371^{+0.185}_{-0.113}$
$260.0 - 350.0$	287.2	0.057 ± 0.012	$^{+0.010}_{-0.009}$	0.93 ± 0.13	$0.057^{+0.005}_{-0.008}$	$0.055^{+0.028}_{-0.017}$

TABLE XXVII: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of dijet transverse momentum for events with three or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/dp_T^{\mathrm{jj}}$ [three-jet bin] (GeV^{-1})						
Bin interval (GeV)	Bin center (GeV)	Measurement ($\times 10^{-6}$)		npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-6}$)	HEJ ($\times 10^{-6}$)
$0.0 - 15.0$	6.8	17.6 ± 0.6	$^{+4.3}_{-2.7}$	1.23 ± 0.06	$18.3^{+1.1}_{-2.9}$	$19.6^{+14.2}_{-7.5}$
$15.0 - 30.0$	21.1	31.8 ± 0.8	$^{+7.6}_{-4.9}$	1.13 ± 0.06	$35.2^{+4.9}_{-6.4}$	$33.3^{+23.0}_{-12.4}$
$30.0 - 45.0$	30.4	34.0 ± 0.9	$^{+7.8}_{-5.1}$	1.12 ± 0.07	$37.0^{+4.7}_{-6.6}$	$36.0^{+24.4}_{-13.3}$
$45.0 - 65.0$	55.8	29.8 ± 0.7	$^{+6.6}_{-4.4}$	1.07 ± 0.06	$30.2^{+4.3}_{-5.5}$	$30.1^{+20.7}_{-11.2}$
$65.0 - 85.0$	74.5	17.0 ± 0.5	$^{+3.6}_{-2.5}$	1.05 ± 0.06	$18.1^{+2.8}_{-3.3}$	$17.7^{+12.0}_{-6.5}$
$85.0 - 110.0$	96.6	8.0 ± 0.3	$^{+1.6}_{-1.2}$	0.98 ± 0.06	$7.6^{+0.9}_{-1.2}$	$8.0^{+5.4}_{-3.0}$
$110.0 - 140.0$	123.5	3.11 ± 0.17	$^{+0.61}_{-0.48}$	0.96 ± 0.03	$2.96^{+0.39}_{-0.50}$	$3.09^{+2.07}_{-1.14}$
$140.0 - 175.0$	155.2	1.09 ± 0.09	$^{+0.21}_{-0.17}$	0.98 ± 0.09	$1.04^{+0.12}_{-0.17}$	$1.00^{+0.67}_{-0.37}$
$175.0 - 210.0$	191.4	0.37 ± 0.05	$^{+0.07}_{-0.06}$	0.92 ± 0.09	$0.34^{+0.05}_{-0.06}$	$0.33^{+0.22}_{-0.12}$
$210.0 - 280.0$	238.8	0.093 ± 0.019	$^{+0.019}_{-0.017}$	0.84 ± 0.11	$0.071^{+0.009}_{-0.013}$	$0.072^{+0.048}_{-0.027}$

TABLE XXVIII: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of dijet invariant mass for events with two or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/dm_{\mathrm{jj}}$ [two-jet bin] (GeV^{-1})				
Bin interval (GeV)	Bin center (GeV)	Measurement ($\times 10^{-6}$)	npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-6}$)	HEJ ($\times 10^{-6}$)
$20.0 - 30.0$	25.1	$39.9 \pm 1.3^{+9.8}_{-6.0}$	0.96 ± 0.13	$52.6^{+5.6}_{-6.8}$	$63.7^{+25.8}_{-16.7}$
$30.0 - 40.0$	34.7	$98 \pm 2^{+23}_{-14}$	1.04 ± 0.04	110^{+10}_{-13}	120^{+50}_{-32}
$40.0 - 50.0$	45.1	$144 \pm 2^{+31}_{-19}$	1.05 ± 0.06	171^{+13}_{-19}	183^{+76}_{-49}
$50.0 - 60.0$	54.0	$195 \pm 3^{+37}_{-23}$	1.08 ± 0.04	226^{+19}_{-26}	222^{+93}_{-60}
$60.0 - 80.0$	70.7	$186 \pm 2^{+30}_{-20}$	1.06 ± 0.02	204^{+15}_{-23}	199^{+84}_{-54}
$80.0 - 100.0$	89.7	$133 \pm 1^{+18}_{-13}$	1.06 ± 0.02	152^{+13}_{-18}	141^{+61}_{-39}
$100.0 - 120.0$	109.6	$90 \pm 1^{+11}_{-8}$	1.04 ± 0.00	102^{+8}_{-120}	94^{+42}_{-26}
$120.0 - 145.0$	131.8	$58.2 \pm 0.8^{+7.1}_{-5.2}$	1.06 ± 0.02	$65.7^{+4.1}_{-7.4}$	$61.2^{+27.9}_{-17.3}$
$145.0 - 175.0$	158.9	$34.5 \pm 0.6^{+4.2}_{-3.1}$	1.06 ± 0.00	$40.5^{+2.8}_{-4.7}$	$36.3^{+16.9}_{-10.4}$
$175.0 - 210.0$	191.6	$19.7 \pm 0.4^{+2.4}_{-1.9}$	1.08 ± 0.01	$23.5^{+1.5}_{-2.7}$	$21.0^{+10.3}_{-6.2}$
$210.0 - 250.0$	229.3	$10.6 \pm 0.3^{+1.3}_{-1.1}$	1.08 ± 0.01	$12.4^{+0.4}_{-1.3}$	$11.1^{+5.5}_{-3.3}$
$250.0 - 300.0$	273.9	$5.16 \pm 0.17^{+0.62}_{-0.52}$	1.06 ± 0.01	$6.38^{+0.24}_{-0.70}$	$5.51^{+2.79}_{-1.67}$
$300.0 - 375.0$	335.4	$2.14 \pm 0.08^{+0.26}_{-0.22}$	1.09 ± 0.00	$2.57^{+0.05}_{-0.24}$	$2.32^{+1.21}_{-0.72}$

TABLE XXIX: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of dijet invariant mass for events with three or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/dm_{\mathrm{jj}}$ [three-jet bin] (GeV^{-1})				
Bin interval (GeV)	Bin center (GeV)	Measurement ($\times 10^{-6}$)	npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-6}$)	HEJ ($\times 10^{-6}$)
$30.0 - 45.0$	36.8	$9.1 \pm 0.5^{+3.2}_{-1.8}$	1.18 ± 0.11	$9.9^{+1.9}_{-2.0}$	$9.9^{+6.8}_{-3.7}$
$45.0 - 65.0$	54.6	$17.1 \pm 0.6^{+5.1}_{-3.1}$	1.18 ± 0.04	$18.5^{+3.2}_{-3.5}$	$17.9^{+12.4}_{-6.7}$
$65.0 - 85.0$	68.3	$20.9 \pm 0.6^{+5.3}_{-3.3}$	1.10 ± 0.06	$21.3^{+3.1}_{-3.9}$	$21.8^{+14.9}_{-8.1}$
$85.0 - 110.0$	98.5	$18.6 \pm 0.5^{+3.9}_{-2.7}$	1.08 ± 0.04	$18.0^{+1.8}_{-3.0}$	$19.1^{+13.1}_{-7.1}$
$110.0 - 140.0$	124.3	$13.4 \pm 0.4^{+2.4}_{-1.8}$	1.07 ± 0.05	$13.6^{+1.8}_{-2.4}$	$13.6^{+9.3}_{-5.0}$
$140.0 - 175.0$	156.0	$8.5 \pm 0.3^{+1.4}_{-1.1}$	1.06 ± 0.04	$9.0^{+1.1}_{-1.6}$	$8.5^{+5.8}_{-3.1}$
$175.0 - 210.0$	191.0	$5.13 \pm 0.23^{+0.79}_{-0.64}$	1.07 ± 0.03	$5.62^{+0.70}_{-0.96}$	$5.38^{+3.67}_{-2.00}$
$210.0 - 260.0$	234.4	$2.78 \pm 0.14^{+0.42}_{-0.35}$	1.01 ± 0.00	$2.89^{+0.25}_{-0.46}$	$2.80^{+1.97}_{-1.05}$
$260.0 - 330.0$	291.6	$1.24 \pm 0.08^{+0.18}_{-0.15}$	1.05 ± 0.02	$1.47^{+0.14}_{-0.25}$	$1.26^{+0.90}_{-0.48}$

TABLE XXX: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of H_T (the scalar sum of the transverse energies of the W boson and all jets) for events with one or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown).

$1/\sigma_W \cdot d\sigma/dH_T$ [one-jet bin] (GeV^{-1})				
Bin interval (GeV)	Bin center (GeV)	Measurement ($\times 10^{-6}$)	npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-6}$)
100.0 − 120.0	109.8	$3294 \pm 13 \; ^{+515}_{-322}$	1.04 ± 0.02	3487^{+90}_{-152}
120.0 − 140.0	129.4	$1050 \pm 9 \; ^{+31}_{-33}$	0.99 ± 0.01	1284^{+47}_{-69}
140.0 − 170.0	153.3	$461 \pm 3 \; ^{+26}_{-22}$	0.99 ± 0.01	515^{+54}_{-50}
170.0 − 200.0	183.4	$184 \pm 2 \; ^{+10}_{-9}$	0.98 ± 0.01	192^{+29}_{-24}
200.0 − 245.0	219.9	$72.6 \pm 0.8 \; ^{+3.6}_{-3.7}$	0.98 ± 0.01	$70.3^{+12.1}_{-9.4}$
245.0 − 300.0	269.6	$24.6 \pm 0.4 \; ^{+1.4}_{-1.4}$	0.98 ± 0.01	$22.7^{+4.5}_{-3.3}$
300.0 − 360.0	327.0	$8.62 \pm 0.18 \; ^{+0.59}_{-0.59}$	0.99 ± 0.00	$7.28^{+1.49}_{-1.07}$
360.0 − 470.0	406.8	$2.35 \pm 0.07 \; ^{+0.19}_{-0.19}$	0.98 ± 0.02	$1.89^{+0.42}_{-0.30}$

TABLE XXXI: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of H_T (the scalar sum of the transverse energies of the W boson and all jets) for events with two or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/dH_T$ [two-jet bin] (GeV^{-1})					
Bin interval (GeV)	Bin center (GeV)	Measurement ($\times 10^{-6}$)	npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-6}$)	HEJ ($\times 10^{-6}$)
120.0 − 135.0	126.7	$160 \pm 4 \; ^{+77}_{-36}$	1.35 ± 0.06	199^{+14}_{-22}	201^{+81}_{-53}
135.0 − 155.0	144.2	$242 \pm 3 \; ^{+58}_{-36}$	1.06 ± 0.03	286^{+19}_{-32}	222^{+91}_{-59}
155.0 − 185.0	168.4	$154 \pm 1 \; ^{+18}_{-14}$	1.02 ± 0.02	176^{+11}_{-20}	146^{+64}_{-40}
185.0 − 230.0	204.9	$68.0 \pm 0.7 \; ^{+5.7}_{-4.9}$	0.99 ± 0.02	$74.9^{+5.8}_{-8.7}$	$69.5^{+32.7}_{-20.0}$
230.0 − 280.0	252.5	$25.6 \pm 0.4 \; ^{+2.0}_{-1.9}$	0.98 ± 0.02	$27.6^{+3.0}_{-3.5}$	$27.4^{+13.6}_{-8.2}$
280.0 − 340.0	306.9	$9.51 \pm 0.20 \; ^{+0.77}_{-0.75}$	0.99 ± 0.02	$9.67^{+1.12}_{-1.23}$	$10.27^{+5.27}_{-3.15}$
340.0 − 390.0	362.6	$3.80 \pm 0.14 \; ^{+0.34}_{-0.33}$	0.97 ± 0.02	$3.64^{+0.45}_{-0.48}$	$4.12^{+2.17}_{-1.29}$
390.0 − 460.0	420.4	$1.62 \pm 0.07 \; ^{+0.15}_{-0.15}$	0.97 ± 0.01	$1.46^{+0.18}_{-0.20}$	$1.64^{+0.88}_{-0.52}$

TABLE XXXII: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of H_T (the scalar sum of the transverse energies of the W boson and all jets) for events with three or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/dH_T$ [three-jet bin] (GeV^{-1})					
Bin interval (GeV)	Bin center (GeV)	Measurement ($\times 10^{-6}$)	npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-6}$)	HEJ ($\times 10^{-6}$)
140.0 − 165.0	151.2	$9.4 \pm 0.5 \; ^{+4.0}_{-2.1}$	1.53 ± 0.04	$11.7^{+2.6}_{-2.6}$	$14.9^{+10.6}_{-5.6}$
165.0 − 200.0	180.5	$22.9 \pm 0.7 \; ^{+6.9}_{-4.2}$	1.13 ± 0.07	$24.0^{+3.8}_{-4.8}$	$22.6^{+15.4}_{-8.3}$
200.0 − 240.0	218.0	$17.2 \pm 0.4 \; ^{+3.4}_{-2.5}$	1.04 ± 0.03	$17.2^{+2.2}_{-3.3}$	$15.9^{+10.8}_{-5.9}$
240.0 − 290.0	262.4	$9.1 \pm 0.3 \; ^{+1.3}_{-1.1}$	1.01 ± 0.03	$9.1^{+1.4}_{-1.9}$	$8.2^{+5.6}_{-3.0}$
290.0 − 340.0	312.2	$4.17 \pm 0.17 \; ^{+0.53}_{-0.50}$	1.01 ± 0.04	$4.05^{+0.54}_{-0.79}$	$3.73^{+2.53}_{-1.38}$
340.0 − 390.0	362.5	$1.91 \pm 0.11 \; ^{+0.25}_{-0.26}$	0.97 ± 0.02	$1.82^{+0.28}_{-0.37}$	$1.73^{+1.18}_{-0.64}$
390.0 − 450.0	416.6	$0.86 \pm 0.07 \; ^{+0.12}_{-0.13}$	0.97 ± 0.00	$0.82^{+0.13}_{-0.17}$	$0.77^{+0.52}_{-0.29}$

TABLE XXXIII: The measured differential cross section, normalized to the measured inclusive W boson cross section, as a function of H_T (the scalar sum of the transverse energies of the W boson and all jets) for events with four or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD after hadronization corrections have been applied (also shown) and HEJ resummation predictions.

$1/\sigma_W \cdot d\sigma/dH_T$ [four-jet bin] (GeV^{-1})					
Bin interval (GeV)	Bin center (GeV)	Measurement ($\times 10^{-6}$)	npQCD correction	NLO BLACKHAT+SHERPA ($\times 10^{-6}$)	HEJ ($\times 10^{-6}$)
$160.0 - 200.0$	177.0	$0.65 \pm 0.15^{+0.52}_{-0.19}$	1.78 ± 0.26	$0.84^{+0.30}_{-0.25}$	$0.90^{+0.91}_{-0.41}$
$200.0 - 250.0$	221.9	$2.27 \pm 0.21^{+0.95}_{-0.51}$	1.27 ± 0.16	$2.10^{+0.53}_{-0.56}$	$1.79^{+1.70}_{-0.80}$
$250.0 - 310.0$	277.1	$1.94 \pm 0.14^{+0.54}_{-0.38}$	1.13 ± 0.07	$1.61^{+0.42}_{-0.43}$	$1.28^{+1.14}_{-0.56}$
$310.0 - 370.0$	338.2	$0.92 \pm 0.09^{+0.27}_{-0.24}$	1.06 ± 0.04	$0.78^{+0.19}_{-0.21}$	$0.60^{+0.53}_{-0.26}$
$370.0 - 450.0$	406.1	$0.232 \pm 0.078^{+0.083}_{-0.086}$	0.96 ± 0.03	$0.294^{+0.064}_{-0.075}$	$0.242^{+0.210}_{-0.104}$

TABLE XXXIV: The measured mean number of jets with $p_T > 20$ GeV and $|y| < 3.2$ as a function of the scalar sum of transverse energies of the W boson and jets in events with one or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD predictions.

$\langle N_{\mathrm{jet}} \rangle$ versus H_T [one-jet bin]				
Bin interval (GeV)	Bin center (GeV)	Measurement	npQCD correction	NLO BLACKHAT+SHERPA
$100.0 - 120.0$	110.0	$0.996 \pm 0.000^{+0.003}_{-0.006}$	1.00 ± 0.00	$1.000^{+0.000}_{-0.000}$
$120.0 - 140.0$	130.0	$1.168 \pm 0.000^{+0.044}_{-0.022}$	1.03 ± 0.00	$1.177^{+0.003}_{-0.003}$
$140.0 - 170.0$	155.0	$1.465 \pm 0.001^{+0.043}_{-0.027}$	1.02 ± 0.00	$1.485^{+0.003}_{-0.003}$
$170.0 - 200.0$	185.0	$1.714 \pm 0.001^{+0.038}_{-0.027}$	1.02 ± 0.01	$1.763^{+0.006}_{-0.006}$
$200.0 - 245.0$	222.5	$1.928 \pm 0.002^{+0.037}_{-0.029}$	1.01 ± 0.01	$2.001^{+0.005}_{-0.005}$
$245.0 - 300.0$	272.5	$2.140 \pm 0.003^{+0.040}_{-0.032}$	1.01 ± 0.01	$2.205^{+0.007}_{-0.007}$
$300.0 - 360.0$	330.0	$2.314 \pm 0.001^{+0.047}_{-0.044}$	1.01 ± 0.01	$2.374^{+0.011}_{-0.011}$
$360.0 - 470.0$	415.0	$2.478 \pm 0.012^{+0.059}_{-0.061}$	1.00 ± 0.01	$2.469^{+0.014}_{-0.014}$

TABLE XXXV: The measured mean number of jets with $p_T > 20$ GeV and $|y| < 3.2$ as a function of the scalar sum of transverse energies of the W boson and jets in events with two or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD and HEJ resummation predictions.

$\langle N_{\mathrm{jet}} \rangle$ versus H_T [two-jet bin]					
Bin interval (GeV)	Bin center (GeV)	Measurement	npQCD correction	NLO BLACKHAT+SHERPA	HEJ
$120.0 - 135.0$	127.5	$1.992 \pm 0.003^{+0.002}_{-0.002}$	1.00 ± 0.01	$2.000^{+0.000}_{-0.000}$	$2.011^{+0.003}_{-0.002}$
$135.0 - 155.0$	145.0	$2.012 \pm 0.002^{+0.006}_{-0.002}$	1.00 ± 0.01	$2.039^{+0.003}_{-0.003}$	$2.049^{+0.011}_{-0.008}$
$155.0 - 185.0$	170.0	$2.132 \pm 0.000^{+0.018}_{-0.009}$	1.00 ± 0.01	$2.184^{+0.006}_{-0.006}$	$2.153^{+0.027}_{-0.021}$
$185.0 - 230.0$	207.5	$2.306 \pm 0.001^{+0.026}_{-0.017}$	1.01 ± 0.01	$2.326^{+0.008}_{-0.008}$	$2.288^{+0.046}_{-0.035}$
$230.0 - 280.0$	255.0	$2.489 \pm 0.002^{+0.028}_{-0.019}$	1.01 ± 0.01	$2.481^{+0.006}_{-0.006}$	$2.412^{+0.060}_{-0.047}$
$280.0 - 340.0$	310.0	$2.635 \pm 0.003^{+0.035}_{-0.030}$	1.01 ± 0.01	$2.579^{+0.021}_{-0.021}$	$2.482^{+0.065}_{-0.052}$
$340.0 - 390.0$	365.0	$2.702 \pm 0.000^{+0.046}_{-0.048}$	1.01 ± 0.01	$2.696^{+0.012}_{-0.012}$	$2.531^{+0.069}_{-0.055}$
$390.0 - 460.0$	425.0	$2.739 \pm 0.029^{+0.054}_{-0.058}$	1.00 ± 0.01	$2.743^{+0.020}_{-0.020}$	$2.549^{+0.066}_{-0.054}$

TABLE XXXVI: The measured mean number of jets with $p_T > 20$ GeV and $|y| < 3.2$ as a function of both the dijet rapidity separation of the two leading p_T jets (Δy_{12}) and the most rapidity-separated jets (Δy_{FB}) in events with two or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD and HEJ resummation predictions.

$\langle N_{\rm jet}\rangle$ versus Δy_{12}					
Bin interval Δy	Bin center Δy	Measurement	npQCD correction	NLO BLACKHAT+SHERPA	HEJ
$0.0-0.4$	0.2	$2.174\pm 0.000^{+0.010}_{-0.008}$	1.00 ± 0.00	$2.156^{+0.002}_{-0.002}$	$2.138^{+0.025}_{-0.019}$
$0.4-0.8$	0.6	$2.160\pm 0.000^{+0.009}_{-0.008}$	1.00 ± 0.00	$2.154^{+0.002}_{-0.002}$	$2.145^{+0.027}_{-0.020}$
$0.8-1.2$	1.0	$2.156\pm 0.002^{+0.009}_{-0.007}$	1.01 ± 0.00	$2.152^{+0.002}_{-0.002}$	$2.149^{+0.028}_{-0.021}$
$1.2-1.6$	1.4	$2.178\pm 0.001^{+0.009}_{-0.007}$	1.00 ± 0.00	$2.152^{+0.002}_{-0.002}$	$2.153^{+0.030}_{-0.022}$
$1.6-2.1$	1.8	$2.182\pm 0.001^{+0.007}_{-0.007}$	1.00 ± 0.00	$2.144^{+0.008}_{-0.008}$	$2.162^{+0.032}_{-0.024}$
$2.1-2.6$	2.3	$2.173\pm 0.001^{+0.006}_{-0.006}$	1.00 ± 0.00	$2.153^{+0.005}_{-0.005}$	$2.166^{+0.032}_{-0.024}$
$2.6-3.2$	2.9	$2.181\pm 0.000^{+0.007}_{-0.007}$	1.00 ± 0.00	$2.163^{+0.005}_{-0.005}$	$2.173^{+0.035}_{-0.026}$
$3.2-4.0$	3.6	$2.187\pm 0.003^{+0.010}_{-0.010}$	1.00 ± 0.00	$2.158^{+0.006}_{-0.006}$	$2.193^{+0.035}_{-0.027}$
$4.0-5.0$	4.5	$2.198\pm 0.004^{+0.025}_{-0.024}$	1.00 ± 0.00	$2.167^{+0.021}_{-0.021}$	$2.192^{+0.034}_{-0.025}$
$5.0-6.0$	5.5	$2.117\pm 0.011^{+0.069}_{-0.060}$	1.00 ± 0.00	$2.140^{+0.043}_{-0.043}$	$2.209^{+0.047}_{-0.034}$

$\langle N_{\rm jet}\rangle$ versus Δy_{FB}					
Bin interval Δy	Bin center Δy	Measurement	npQCD correction	NLO BLACKHAT+SHERPA	HEJ
$0.0-0.4$	0.2	$2.023\pm 0.001^{+0.002}_{-0.002}$	1.00 ± 0.00	$2.015^{+0.000}_{-0.000}$	$2.015^{+0.002}_{-0.002}$
$0.4-0.8$	0.6	$2.056\pm 0.001^{+0.003}_{-0.003}$	1.00 ± 0.00	$2.056^{+0.001}_{-0.001}$	$2.052^{+0.008}_{-0.006}$
$0.8-1.2$	1.0	$2.115\pm 0.001^{+0.005}_{-0.005}$	1.00 ± 0.00	$2.101^{+0.001}_{-0.001}$	$2.099^{+0.016}_{-0.012}$
$1.2-1.6$	1.4	$2.179\pm 0.000^{+0.007}_{-0.007}$	1.00 ± 0.00	$2.148^{+0.002}_{-0.002}$	$2.149^{+0.025}_{-0.019}$
$1.6-2.1$	1.8	$2.240\pm 0.000^{+0.008}_{-0.008}$	1.00 ± 0.00	$2.195^{+0.003}_{-0.003}$	$2.206^{+0.034}_{-0.026}$
$2.1-2.6$	2.3	$2.296\pm 0.003^{+0.010}_{-0.010}$	1.00 ± 0.00	$2.243^{+0.006}_{-0.006}$	$2.273^{+0.044}_{-0.034}$
$2.6-3.2$	2.9	$2.371\pm 0.001^{+0.012}_{-0.012}$	1.00 ± 0.00	$2.295^{+0.007}_{-0.007}$	$2.342^{+0.055}_{-0.043}$
$3.2-4.0$	3.6	$2.462\pm 0.001^{+0.015}_{-0.015}$	1.00 ± 0.00	$2.326^{+0.026}_{-0.026}$	$2.431^{+0.063}_{-0.051}$
$4.0-5.0$	4.5	$2.548\pm 0.005^{+0.033}_{-0.032}$	1.00 ± 0.00	$2.422^{+0.040}_{-0.040}$	$2.542^{+0.067}_{-0.057}$
$5.0-6.0$	5.5	$2.579\pm 0.008^{+0.237}_{-0.221}$	1.00 ± 0.01	$2.714^{+0.187}_{-0.187}$	$2.661^{+0.083}_{-0.071}$

TABLE XXXVII: The third jet emission probability for jets with $p_T > 20$ GeV and $|y| < 3.2$ measured as a function of both the dijet rapidity separation of the two leading p_T jets (Δy_{12}) with and without a requirement that the third jet be emitted into the rapidity interval defined by the leading two jets, and as a function of the most rapidity-separated jets (Δy_{FB}), in events with two or more jets produced in association with a W boson. The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD and HEJ resummation predictions for each of the configurations.

Probability of third jet emission versus Δy_{12}					
Bin interval Δy	Bin center Δy	Measurement	npQCD correction	NLO BLACKHAT+SHERPA	HEJ
$0.0-0.4$	0.2	$0.151\pm 0.005^{+0.011}_{-0.009}$	1.04 ± 0.01	$0.139^{+0.002}_{-0.002}$	$0.124^{+0.020}_{-0.016}$
$0.4-0.8$	0.6	$0.143\pm 0.005^{+0.010}_{-0.008}$	1.03 ± 0.00	$0.137^{+0.002}_{-0.002}$	$0.132^{+0.022}_{-0.017}$
$0.8-1.2$	1.0	$0.138\pm 0.005^{+0.009}_{-0.007}$	1.06 ± 0.02	$0.135^{+0.002}_{-0.002}$	$0.136^{+0.023}_{-0.018}$
$1.2-1.6$	1.4	$0.155\pm 0.005^{+0.008}_{-0.007}$	1.02 ± 0.01	$0.134^{+0.002}_{-0.002}$	$0.138^{+0.024}_{-0.018}$
$1.6-2.1$	1.8	$0.157\pm 0.005^{+0.006}_{-0.006}$	1.03 ± 0.03	$0.127^{+0.008}_{-0.008}$	$0.147^{+0.027}_{-0.020}$
$2.1-2.6$	2.3	$0.154\pm 0.007^{+0.004}_{-0.004}$	1.02 ± 0.01	$0.137^{+0.005}_{-0.005}$	$0.151^{+0.027}_{-0.020}$
$2.6-3.2$	2.9	$0.157\pm 0.012^{+0.005}_{-0.004}$	1.05 ± 0.03	$0.147^{+0.005}_{-0.005}$	$0.156^{+0.029}_{-0.022}$
$3.2-4.0$	3.6	$0.173\pm 0.022^{+0.013}_{-0.011}$	1.03 ± 0.01	$0.140^{+0.006}_{-0.006}$	$0.176^{+0.030}_{-0.023}$
$4.0-5.0$	4.5	$0.163\pm 0.025^{+0.023}_{-0.023}$	0.98 ± 0.03	$0.150^{+0.020}_{-0.020}$	$0.175^{+0.028}_{-0.021}$
Probability of third jet emission into the rapidity gap versus Δy_{12}					
Bin interval Δy	Bin center Δy	Measurement	npQCD correction	NLO BLACKHAT+SHERPA	HEJ
$0.0-0.4$	0.2	$0.007\pm 0.001^{+0.001}_{-0.000}$	0.99 ± 0.00	$0.005^{+0.000}_{-0.000}$	$0.006^{+0.001}_{-0.001}$
$0.4-0.8$	0.6	$0.021\pm 0.002^{+0.001}_{-0.001}$	1.08 ± 0.04	$0.016^{+0.001}_{-0.001}$	$0.018^{+0.003}_{-0.002}$
$0.8-1.2$	1.0	$0.041\pm 0.003^{+0.002}_{-0.002}$	1.09 ± 0.05	$0.033^{+0.001}_{-0.001}$	$0.033^{+0.005}_{-0.004}$
$1.2-1.6$	1.4	$0.067\pm 0.003^{+0.002}_{-0.002}$	1.03 ± 0.01	$0.047^{+0.002}_{-0.002}$	$0.049^{+0.008}_{-0.006}$
$1.6-2.1$	1.8	$0.086\pm 0.004^{+0.002}_{-0.003}$	1.03 ± 0.03	$0.058^{+0.003}_{-0.003}$	$0.066^{+0.011}_{-0.008}$
$2.1-2.6$	2.3	$0.096\pm 0.005^{+0.002}_{-0.002}$	1.00 ± 0.01	$0.068^{+0.010}_{-0.010}$	$0.083^{+0.014}_{-0.010}$
$2.6-3.2$	2.9	$0.108\pm 0.009^{+0.004}_{-0.005}$	1.02 ± 0.04	$0.094^{+0.007}_{-0.007}$	$0.102^{+0.017}_{-0.013}$
$3.2-4.0$	3.6	$0.126\pm 0.025^{+0.011}_{-0.013}$	1.00 ± 0.01	$0.083^{+0.017}_{-0.017}$	$0.122^{+0.021}_{-0.016}$
$4.0-5.0$	4.5	$0.111\pm 0.017^{+0.019}_{-0.020}$	0.95 ± 0.06	$0.131^{+0.029}_{-0.029}$	$0.142^{+0.024}_{-0.019}$
Probability of third jet emission versus Δy_{FB}					
Bin interval Δy	Bin center Δy	Measurement	npQCD correction	NLO BLACKHAT+SHERPA	HEJ
$0.0-0.4$	0.2	$0.020\pm 0.002^{+0.001}_{-0.001}$	1.00 ± 0.00	$0.015^{+0.000}_{-0.000}$	$0.015^{+0.002}_{-0.002}$
$0.4-0.8$	0.6	$0.054\pm 0.003^{+0.002}_{-0.002}$	1.03 ± 0.01	$0.054^{+0.001}_{-0.001}$	$0.050^{+0.008}_{-0.006}$
$0.8-1.2$	1.0	$0.100\pm 0.004^{+0.003}_{-0.003}$	1.07 ± 0.04	$0.095^{+0.002}_{-0.002}$	$0.095^{+0.015}_{-0.011}$
$1.2-1.6$	1.4	$0.159\pm 0.005^{+0.004}_{-0.004}$	1.02 ± 0.01	$0.137^{+0.002}_{-0.002}$	$0.139^{+0.021}_{-0.017}$
$1.6-2.1$	1.8	$0.205\pm 0.006^{+0.005}_{-0.006}$	1.03 ± 0.02	$0.175^{+0.003}_{-0.003}$	$0.190^{+0.029}_{-0.023}$
$2.1-2.6$	2.3	$0.247\pm 0.007^{+0.009}_{-0.009}$	1.00 ± 0.02	$0.215^{+0.006}_{-0.006}$	$0.244^{+0.036}_{-0.028}$
$2.6-3.2$	2.9	$0.307\pm 0.010^{+0.019}_{-0.016}$	1.01 ± 0.02	$0.285^{+0.007}_{-0.007}$	$0.298^{+0.042}_{-0.034}$
$3.2-4.0$	3.6	$0.387\pm 0.015^{+0.041}_{-0.027}$	0.99 ± 0.02	$0.315^{+0.025}_{-0.025}$	$0.375^{+0.047}_{-0.039}$
$4.0-5.0$	4.5	$0.460\pm 0.025^{+0.065}_{-0.039}$	0.94 ± 0.03	$0.409^{+0.038}_{-0.038}$	$0.448^{+0.047}_{-0.042}$
$5.0-6.0$	5.5	$0.485\pm 0.081^{+0.122}_{-0.118}$	0.97 ± 0.06	$0.687^{+0.182}_{-0.182}$	$0.546^{+0.060}_{-0.051}$

TABLE XXXVIII: The gap fraction for events with two or more jets produced in association with a W boson, measured as a function of the dijet rapidity separation of the two leading p_T jets (Δy_{12}) and as a function of the two most rapidity-separated jets (Δy_{FB}). The first data uncertainty is statistical, the second is systematic. Also shown are predictions from NLO pQCD and HEJ resummation predictions for each of the configurations.

Gap fraction versus Δy_{12}					
Bin interval Δy	Bin center Δy	Measurement	npQCD correction	NLO BLACKHAT+SHERPA	HEJ
$0.0-0.4$	0.2	$0.993\pm 0.001^{+0.000}_{-0.001}$	0.99 ± 0.00	$0.995^{+0.000}_{-0.000}$	$0.994^{+0.001}_{-0.001}$
$0.4-0.8$	0.6	$0.979\pm 0.002^{+0.001}_{-0.001}$	1.08 ± 0.04	$0.984^{+0.001}_{-0.001}$	$0.982^{+0.002}_{-0.003}$
$0.8-1.2$	1.0	$0.959\pm 0.003^{+0.002}_{-0.002}$	1.09 ± 0.05	$0.967^{+0.001}_{-0.001}$	$0.967^{+0.004}_{-0.005}$
$1.2-1.6$	1.4	$0.933\pm 0.003^{+0.002}_{-0.002}$	1.03 ± 0.01	$0.953^{+0.002}_{-0.002}$	$0.951^{+0.006}_{-0.008}$
$1.6-2.1$	1.8	$0.914\pm 0.004^{+0.003}_{-0.002}$	1.03 ± 0.03	$0.942^{+0.003}_{-0.003}$	$0.934^{+0.008}_{-0.011}$
$2.1-2.6$	2.3	$0.904\pm 0.005^{+0.002}_{-0.002}$	1.00 ± 0.01	$0.932^{+0.010}_{-0.010}$	$0.917^{+0.010}_{-0.014}$
$2.6-3.2$	2.9	$0.892\pm 0.009^{+0.005}_{-0.004}$	1.02 ± 0.04	$0.906^{+0.007}_{-0.007}$	$0.898^{+0.013}_{-0.017}$
$3.2-4.0$	3.6	$0.874\pm 0.025^{+0.013}_{-0.011}$	1.00 ± 0.01	$0.917^{+0.017}_{-0.017}$	$0.878^{+0.016}_{-0.021}$
$4.0-5.0$	4.5	$0.889\pm 0.017^{+0.020}_{-0.019}$	0.95 ± 0.06	$0.869^{+0.029}_{-0.029}$	$0.858^{+0.019}_{-0.024}$
Gap fraction versus Δy_{FB}					
Bin interval Δy	Bin center Δy	Measurement	npQCD correction	NLO BLACKHAT+SHERPA	HEJ
$0.0-0.4$	0.2	$0.980\pm 0.002^{+0.001}_{-0.001}$	1.00 ± 0.00	$0.985^{+0.000}_{-0.000}$	$0.985^{+0.002}_{-0.002}$
$0.4-0.8$	0.6	$0.946\pm 0.003^{+0.002}_{-0.002}$	1.03 ± 0.01	$0.946^{+0.001}_{-0.001}$	$0.950^{+0.006}_{-0.008}$
$0.8-1.2$	1.0	$0.900\pm 0.004^{+0.003}_{-0.003}$	1.07 ± 0.04	$0.905^{+0.002}_{-0.002}$	$0.905^{+0.011}_{-0.015}$
$1.2-1.6$	1.4	$0.841\pm 0.005^{+0.004}_{-0.004}$	1.02 ± 0.01	$0.863^{+0.002}_{-0.002}$	$0.861^{+0.017}_{-0.021}$
$1.6-2.1$	1.8	$0.795\pm 0.006^{+0.006}_{-0.005}$	1.03 ± 0.02	$0.825^{+0.003}_{-0.003}$	$0.810^{+0.023}_{-0.029}$
$2.1-2.6$	2.3	$0.753\pm 0.007^{+0.009}_{-0.009}$	1.00 ± 0.02	$0.785^{+0.006}_{-0.006}$	$0.756^{+0.028}_{-0.036}$
$2.6-3.2$	2.9	$0.693\pm 0.010^{+0.016}_{-0.019}$	1.01 ± 0.02	$0.715^{+0.007}_{-0.007}$	$0.702^{+0.034}_{-0.042}$
$3.2-4.0$	3.6	$0.613\pm 0.015^{+0.027}_{-0.041}$	0.99 ± 0.02	$0.685^{+0.025}_{-0.025}$	$0.625^{+0.039}_{-0.047}$
$4.0-5.0$	4.5	$0.540\pm 0.025^{+0.039}_{-0.065}$	0.94 ± 0.03	$0.591^{+0.038}_{-0.038}$	$0.552^{+0.042}_{-0.047}$
$5.0-6.0$	5.5	$0.515\pm 0.081^{+0.118}_{-0.122}$	0.97 ± 0.06	$0.313^{+0.182}_{-0.182}$	$0.454^{+0.051}_{-0.060}$

TABLE XXXIX: Non-perturbative correction (applied to NLO pQCD predictions) as a function of leading jet rapidity for events with one or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
-3.2 – -2.8	0.98	1.01	0.99 ± 0.02
-2.8 – -2.4	0.99	1.02	1.01 ± 0.02
-2.4 – -2.0	1.00	1.01	1.01 ± 0.01
-2.0 – -1.6	1.00	1.01	1.01 ± 0.01
-1.6 – -1.2	1.01	1.01	1.01 ± 0.01
-1.2 – -0.8	1.01	1.01	1.01 ± 0.01
-0.8 – -0.4	1.01	1.01	1.02 ± 0.02
-0.4 – 0.0	1.01	1.01	1.02 ± 0.02
0.0 – 0.4	1.01	1.01	1.02 ± 0.02
0.4 – 0.8	1.01	1.01	1.02 ± 0.02
0.8 – 1.2	1.01	1.01	1.01 ± 0.01
1.2 – 1.6	1.01	1.01	1.01 ± 0.01
1.6 – 2.0	1.00	1.01	1.01 ± 0.01
2.0 – 2.4	1.00	1.01	1.01 ± 0.01
2.4 – 2.8	0.99	1.02	1.01 ± 0.02
2.8 – 3.2	0.98	1.01	0.99 ± 0.02

TABLE XL: Non-perturbative correction (applied to NLO pQCD predictions) as a function of second jet rapidity for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
-3.2 – -2.8	1.01	1.09	1.10 ± 0.04
-2.8 – -2.4	1.01	1.07	1.09 ± 0.03
-2.4 – -2.0	1.01	1.07	1.08 ± 0.03
-2.0 – -1.6	1.02	1.04	1.05 ± 0.02
-1.6 – -1.2	1.01	1.04	1.05 ± 0.02
-1.2 – -0.8	1.01	1.03	1.05 ± 0.02
-0.8 – -0.4	1.01	1.04	1.05 ± 0.03
-0.4 – 0.0	1.01	1.04	1.06 ± 0.03
0.0 – 0.4	1.01	1.04	1.06 ± 0.03
0.4 – 0.8	1.01	1.04	1.05 ± 0.03
0.8 – 1.2	1.01	1.03	1.05 ± 0.02
1.2 – 1.6	1.01	1.04	1.05 ± 0.02
1.6 – 2.0	1.02	1.04	1.05 ± 0.02
2.0 – 2.4	1.01	1.07	1.08 ± 0.03
2.4 – 2.8	1.01	1.07	1.09 ± 0.03
2.8 – 3.2	1.01	1.09	1.10 ± 0.04

TABLE XLI: Non-perturbative correction (applied to NLO pQCD predictions) as a function of third jet rapidity for events with three or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
-3.2 – -2.4	0.98	1.09	1.07 ± 0.05
-2.4 – -1.6	1.01	1.08	1.09 ± 0.04
-1.6 – -0.8	1.01	1.09	1.10 ± 0.04
-0.8 – 0.0	1.00	1.09	1.09 ± 0.05
0.0 – 0.8	1.00	1.09	1.09 ± 0.05
0.8 – 1.6	1.01	1.09	1.10 ± 0.04
1.6 – 2.4	1.01	1.08	1.09 ± 0.04
2.4 – 3.2	0.98	1.09	1.07 ± 0.05

TABLE XLII: Non-perturbative correction (applied to NLO pQCD predictions) as a function of fourth jet rapidity for events with four or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
-3.2 – -2.4	1.01	1.21	1.23 ± 0.15
-2.4 – -1.6	1.03	1.18	1.22 ± 0.09
-1.6 – -0.8	1.00	1.14	1.13 ± 0.07
-0.8 – 0.0	1.00	1.23	1.23 ± 0.13
0.0 – 0.8	1.00	1.23	1.23 ± 0.13
0.8 – 1.6	1.00	1.14	1.13 ± 0.07
1.6 – 2.4	1.03	1.18	1.22 ± 0.09
2.4 – 3.2	1.01	1.21	1.23 ± 0.15

TABLE XLIII: Non-perturbative correction (applied to NLO pQCD predictions) as a function of electron transverse momentum for events with one or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
15.0 – 25.0	1.01	1.03	1.04 ± 0.01
25.0 – 35.0	1.01	1.01	1.02 ± 0.02
35.0 – 45.0	1.00	1.04	1.05 ± 0.03
45.0 – 55.0	1.01	0.95	0.96 ± 0.01
55.0 – 70.0	1.00	0.98	0.98 ± 0.00
70.0 – 90.0	1.00	0.99	0.99 ± 0.00
90.0 – 130.0	1.00	0.98	0.98 ± 0.00
130.0 – 200.0	1.00	0.96	0.96 ± 0.01
200.0 – 300.0	1.01	1.01	1.01 ± 0.03

TABLE XLIV: Non-perturbative correction (applied to NLO pQCD predictions) as a function of electron transverse momentum for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
15.0 – 25.0	1.01	1.06	1.07 ± 0.03
25.0 – 35.0	1.01	1.07	1.08 ± 0.03
35.0 – 45.0	1.02	1.08	1.10 ± 0.03
45.0 – 55.0	1.01	1.01	1.02 ± 0.02
55.0 – 70.0	1.01	0.98	0.99 ± 0.02
70.0 – 100.0	1.00	0.99	0.99 ± 0.02
100.0 – 170.0	0.99	0.99	0.97 ± 0.02
170.0 – 250.0	0.95	1.01	0.96 ± 0.02

TABLE XLV: Non-perturbative correction (applied to NLO pQCD predictions) as a function of electron transverse momentum for events with three or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
15.0 – 25.0	1.00	1.11	1.12 ± 0.04
25.0 – 35.0	1.01	1.12	1.13 ± 0.05
35.0 – 50.0	1.01	1.10	1.11 ± 0.05
50.0 – 70.0	1.01	1.02	1.03 ± 0.03
70.0 – 110.0	0.99	1.03	1.01 ± 0.02
110.0 – 150.0	0.95	1.01	0.97 ± 0.04
150.0 – 250.0	0.94	1.04	0.98 ± 0.04

TABLE XLVI: Non-perturbative correction (applied to NLO pQCD predictions) as a function of electron transverse momentum for events with four or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
15.0 – 25.0	1.01	1.30	1.31 ± 0.08
25.0 – 35.0	1.03	1.15	1.18 ± 0.12
35.0 – 50.0	1.02	1.22	1.24 ± 0.17
50.0 – 70.0	0.97	1.15	1.12 ± 0.04
70.0 – 130.0	0.98	1.09	1.06 ± 0.03
130.0 – 200.0	0.90	1.18	1.06 ± 0.07

TABLE XLVII: Non-perturbative correction (applied to NLO pQCD predictions) as a function of electron pseudorapidity for events with one or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
−1.1 – −0.8	1.01	1.01	1.02 ± 0.02
−0.8 – −0.6	1.01	1.01	1.01 ± 0.02
−0.6 – −0.4	1.01	1.01	1.01 ± 0.02
−0.4 – −0.2	1.01	1.01	1.01 ± 0.02
−0.2 – 0.0	1.01	1.01	1.01 ± 0.02
0.0 – 0.2	1.01	1.01	1.01 ± 0.02
0.2 – 0.4	1.01	1.01	1.01 ± 0.02
0.4 – 0.6	1.01	1.01	1.01 ± 0.02
0.6 – 0.8	1.01	1.01	1.01 ± 0.02
0.8 – 1.1	1.01	1.01	1.02 ± 0.02

TABLE XLVIII: Non-perturbative correction (applied to NLO pQCD predictions) as a function of electron pseudorapidity for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
−1.1 – −0.8	1.01	1.04	1.06 ± 0.03
−0.8 – −0.6	1.01	1.05	1.06 ± 0.03
−0.6 – −0.4	1.01	1.05	1.06 ± 0.03
−0.4 – −0.2	1.01	1.04	1.05 ± 0.02
−0.2 – 0.0	1.01	1.04	1.05 ± 0.03
0.0 – 0.2	1.01	1.04	1.05 ± 0.03
0.2 – 0.4	1.01	1.04	1.05 ± 0.02
0.4 – 0.6	1.01	1.05	1.06 ± 0.03
0.6 – 0.8	1.01	1.05	1.06 ± 0.03
0.8 – 1.1	1.01	1.04	1.06 ± 0.03

TABLE XLIX: Non-perturbative correction (applied to NLO pQCD predictions) as a function of electron pseudorapidity for events with three or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
-1.1 – -0.8	1.01	1.08	1.09 ± 0.04
-0.8 – -0.6	1.00	1.11	1.12 ± 0.05
-0.6 – -0.4	1.00	1.06	1.07 ± 0.04
-0.4 – -0.2	1.00	1.10	1.10 ± 0.04
-0.2 – 0.0	1.01	1.08	1.09 ± 0.05
0.0 – 0.2	1.01	1.08	1.09 ± 0.05
0.2 – 0.4	1.00	1.10	1.10 ± 0.04
0.4 – 0.6	1.00	1.06	1.07 ± 0.04
0.6 – 0.8	1.00	1.11	1.12 ± 0.05
0.8 – 1.1	1.01	1.08	1.09 ± 0.04

TABLE L: Non-perturbative correction (applied to NLO pQCD predictions) as a function of electron pseudorapidity for events with four or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
-1.1 – -0.6	1.01	1.20	1.21 ± 0.14
-0.6 – -0.2	1.01	1.17	1.19 ± 0.08
-0.2 – 0.2	0.97	1.20	1.16 ± 0.05
0.2 – 0.6	1.01	1.17	1.19 ± 0.08
0.6 – 1.1	1.01	1.20	1.21 ± 0.14

TABLE LI: Non-perturbative correction (applied to NLO pQCD predictions) as a function of dijet rapidity separation of the leading two jets for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 0.4	1.01	1.04	1.05 ± 0.04
0.4 – 0.8	1.00	1.05	1.06 ± 0.03
0.8 – 1.2	1.01	1.02	1.03 ± 0.03
1.2 – 1.6	1.02	1.01	1.02 ± 0.03
1.6 – 2.1	1.02	1.02	1.04 ± 0.03
2.1 – 2.6	1.02	1.04	1.07 ± 0.03
2.6 – 3.2	1.02	1.08	1.10 ± 0.04
3.2 – 4.0	1.01	1.14	1.15 ± 0.04
4.0 – 5.0	1.02	1.29	1.31 ± 0.07
5.0 – 6.0	1.03	1.64	1.69 ± 0.06

TABLE LII: Non-perturbative correction (applied to NLO pQCD predictions) as a function of dijet rapidity separation of the two most rapidity-separated jets for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 0.4	1.01	1.03	1.04 ± 0.04
0.4 – 0.8	1.00	1.05	1.06 ± 0.03
0.8 – 1.2	1.01	1.02	1.03 ± 0.03
1.2 – 1.6	1.02	1.01	1.02 ± 0.02
1.6 – 2.1	1.02	1.03	1.05 ± 0.02
2.1 – 2.6	1.02	1.05	1.06 ± 0.02
2.6 – 3.2	1.02	1.08	1.10 ± 0.03
3.2 – 4.0	1.02	1.12	1.14 ± 0.03
4.0 – 5.0	1.01	1.26	1.28 ± 0.02
5.0 – 6.0	1.01	1.67	1.69 ± 0.11

TABLE LIII: Non-perturbative correction (applied to NLO pQCD predictions) as a function of dijet rapidity separation of the leading two jets for events with three or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 0.4	0.99	1.10	1.09 ± 0.05
0.4 – 0.8	1.00	1.09	1.09 ± 0.03
0.8 – 1.2	0.99	1.10	1.09 ± 0.05
1.2 – 1.6	1.00	1.04	1.04 ± 0.03
1.6 – 2.1	1.00	1.07	1.07 ± 0.06
2.1 – 2.6	1.04	1.04	1.08 ± 0.03
2.6 – 3.2	1.02	1.13	1.15 ± 0.07
3.2 – 4.0	1.00	1.17	1.17 ± 0.04
4.0 – 5.0	1.06	1.23	1.30 ± 0.02

TABLE LIV: Non-perturbative correction (applied to NLO pQCD predictions) as a function of dijet rapidity separation of the two most rapidity-separated jets for events with three or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 0.4	0.97	1.07	1.04 ± 0.03
0.4 – 0.8	0.98	1.11	1.09 ± 0.04
0.8 – 1.2	0.99	1.11	1.10 ± 0.07
1.2 – 1.6	0.98	1.07	1.05 ± 0.01
1.6 – 2.1	1.01	1.06	1.08 ± 0.05
2.1 – 2.6	1.01	1.05	1.07 ± 0.05
2.6 – 3.2	1.01	1.10	1.11 ± 0.05
3.2 – 4.0	1.02	1.09	1.12 ± 0.05
4.0 – 5.0	1.02	1.18	1.20 ± 0.04
5.0 – 6.0	1.04	1.57	1.64 ± 0.39

TABLE LV: Non-perturbative correction (applied to NLO pQCD predictions) as a function of $\Delta\phi$ separation between the leading two jets for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 0.3	0.98	1.09	1.08 ± 0.03
0.3 – 0.6	0.98	1.10	1.08 ± 0.03
0.6 – 0.9	0.99	1.10	1.09 ± 0.02
0.9 – 1.1	0.99	1.02	1.01 ± 0.03
1.1 – 1.4	1.01	0.98	0.99 ± 0.03
1.4 – 1.6	1.02	0.97	0.99 ± 0.03
1.6 – 1.8	1.03	0.97	0.99 ± 0.02
1.8 – 2.0	1.03	0.98	1.00 ± 0.03
2.0 – 2.2	1.02	1.00	1.02 ± 0.04
2.2 – 2.4	1.01	1.00	1.02 ± 0.01
2.4 – 2.6	1.02	1.02	1.04 ± 0.02
2.6 – 2.8	1.02	1.05	1.07 ± 0.02
2.8 – 3.0	1.02	1.09	1.11 ± 0.02
3.0 – 3.2	1.02	1.16	1.19 ± 0.05

TABLE LVI: Non-perturbative correction (applied to NLO pQCD predictions) as a function of $\Delta\phi$ separation between the two most rapidity-separated jets for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 0.3	0.98	1.09	1.07 ± 0.03
0.3 – 0.6	0.98	1.09	1.07 ± 0.03
0.6 – 0.9	0.99	1.09	1.08 ± 0.03
0.9 – 1.1	0.99	1.01	1.00 ± 0.03
1.1 – 1.4	1.01	0.98	0.99 ± 0.03
1.4 – 1.6	1.02	0.98	1.00 ± 0.03
1.6 – 1.8	1.03	0.97	1.00 ± 0.02
1.8 – 2.0	1.02	0.98	1.00 ± 0.03
2.0 – 2.2	1.02	1.00	1.02 ± 0.04
2.2 – 2.4	1.02	1.00	1.01 ± 0.01
2.4 – 2.6	1.02	1.02	1.04 ± 0.02
2.6 – 2.8	1.02	1.05	1.07 ± 0.02
2.8 – 3.0	1.02	1.09	1.12 ± 0.02
3.0 – 3.2	1.02	1.17	1.20 ± 0.05

TABLE LVII: Non-perturbative correction (applied to NLO pQCD predictions) as a function of ΔR separation between the two leading jets for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.6 – 1.0	0.98	1.30	1.27 ± 0.04
1.0 – 1.4	0.96	1.01	0.98 ± 0.03
1.4 – 1.8	1.02	0.96	0.98 ± 0.03
1.8 – 2.2	1.02	0.97	1.00 ± 0.02
2.2 – 2.5	1.02	0.99	1.01 ± 0.03
2.5 – 2.8	1.02	0.99	1.01 ± 0.01
2.8 – 3.0	1.02	1.02	1.04 ± 0.03
3.0 – 3.2	1.02	1.05	1.07 ± 0.04
3.2 – 3.5	1.02	1.06	1.08 ± 0.02
3.5 – 3.9	1.02	1.08	1.10 ± 0.02
3.9 – 4.5	1.02	1.18	1.21 ± 0.03
4.5 – 6.0	1.01	1.32	1.33 ± 0.00

TABLE LVIII: Non-perturbative correction (applied to NLO pQCD predictions) as a function of the dijet rapidity separation of the leading and third jets for events with three or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 0.4	1.00	1.08	1.08 ± 0.06
0.4 – 0.8	0.99	1.12	1.10 ± 0.06
0.8 – 1.2	1.01	1.07	1.08 ± 0.04
1.2 – 1.6	1.01	1.07	1.09 ± 0.04
1.6 – 2.1	1.01	1.06	1.07 ± 0.04
2.1 – 2.6	0.99	1.09	1.08 ± 0.01
2.6 – 3.2	1.02	1.12	1.14 ± 0.06
3.2 – 4.0	1.04	1.09	1.14 ± 0.06
4.0 – 5.0	0.98	1.20	1.17 ± 0.09
5.0 – 6.0	0.92	1.30	1.20 ± 0.10

TABLE LIX: Non-perturbative correction (applied to NLO pQCD predictions) as a function of the dijet rapidity separation of the second and third jets for events with three or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 0.4	1.00	1.08	1.08 ± 0.04
0.4 – 0.8	0.99	1.11	1.10 ± 0.02
0.8 – 1.2	0.99	1.09	1.08 ± 0.05
1.2 – 1.6	1.01	1.04	1.05 ± 0.03
1.6 – 2.1	1.03	1.07	1.10 ± 0.06
2.1 – 2.6	1.01	1.10	1.11 ± 0.08
2.6 – 3.2	1.01	1.07	1.09 ± 0.02
3.2 – 4.0	1.03	1.11	1.15 ± 0.05
4.0 – 5.0	1.00	1.21	1.22 ± 0.02
5.0 – 6.0	1.00	1.46	1.46 ± 0.14

TABLE LX: Non-perturbative correction (applied to NLO pQCD predictions) as a function of W boson transverse momentum for events with one or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 10.0	0.96	2.30	2.21 ± 1.22
10.0 – 20.0	1.01	1.10	1.11 ± 0.13
20.0 – 30.0	1.02	0.91	0.93 ± 0.05
30.0 – 40.0	1.01	0.96	0.97 ± 0.03
40.0 – 50.0	1.00	0.99	0.99 ± 0.01
50.0 – 65.0	1.00	1.00	1.00 ± 0.01
65.0 – 80.0	1.00	1.00	1.00 ± 0.01
80.0 – 100.0	1.00	1.00	1.00 ± 0.00
100.0 – 135.0	1.00	1.00	1.00 ± 0.01
135.0 – 200.0	1.00	1.01	1.01 ± 0.00
200.0 – 300.0	1.00	1.00	1.00 ± 0.01

TABLE LXI: Non-perturbative correction (applied to NLO pQCD predictions) as a function of W boson transverse momentum for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 15.0	1.03	1.30	1.34 ± 0.36
15.0 – 25.0	1.02	1.06	1.08 ± 0.10
25.0 – 35.0	1.01	1.03	1.04 ± 0.06
35.0 – 45.0	1.01	1.00	1.00 ± 0.03
45.0 – 55.0	1.01	0.98	0.98 ± 0.00
55.0 – 65.0	1.01	0.98	1.00 ± 0.01
65.0 – 80.0	1.01	1.00	1.00 ± 0.01
80.0 – 105.0	1.00	1.00	1.00 ± 0.00
105.0 – 140.0	0.99	1.01	1.00 ± 0.00
140.0 – 190.0	0.97	1.01	0.98 ± 0.01
190.0 – 250.0	0.96	0.98	0.94 ± 0.04

TABLE LXII: Non-perturbative correction (applied to NLO pQCD predictions) as a function of W boson transverse momentum for events with three or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 15.0	1.03	1.37	1.41 ± 0.09
15.0 – 30.0	1.01	1.12	1.13 ± 0.06
30.0 – 45.0	1.00	1.06	1.06 ± 0.02
45.0 – 60.0	1.01	1.04	1.06 ± 0.05
60.0 – 75.0	1.00	1.04	1.04 ± 0.05
75.0 – 90.0	1.00	1.02	1.01 ± 0.03
90.0 – 115.0	0.99	1.03	1.02 ± 0.02
115.0 – 150.0	0.97	1.03	0.99 ± 0.02
150.0 – 250.0	0.96	1.04	1.00 ± 0.06

TABLE LXIII: Non-perturbative correction (applied to NLO pQCD predictions) as a function of W boson transverse momentum for events with four or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 20.0	1.02	1.38	1.42 ± 0.20
20.0 – 35.0	1.05	1.16	1.22 ± 0.14
35.0 – 50.0	0.98	1.18	1.16 ± 0.10
50.0 – 70.0	0.99	1.17	1.17 ± 0.04
70.0 – 100.0	1.00	1.12	1.12 ± 0.05
100.0 – 135.0	0.98	1.15	1.14 ± 0.18
135.0 – 200.0	0.95	1.04	0.99 ± 0.03

TABLE LXIV: Non-perturbative correction (applied to NLO pQCD predictions) as a function of dijet transverse momentum for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 10.0	1.03	1.36	1.40 ± 0.09
10.0 – 20.0	1.02	1.11	1.13 ± 0.02
20.0 – 30.0	1.02	1.02	1.04 ± 0.03
30.0 – 40.0	1.01	1.01	1.02 ± 0.03
40.0 – 50.0	1.00	1.03	1.03 ± 0.04
50.0 – 65.0	1.01	1.00	1.01 ± 0.03
65.0 – 80.0	1.01	0.97	0.99 ± 0.03
80.0 – 100.0	1.01	0.97	0.98 ± 0.03
100.0 – 120.0	1.00	0.96	0.95 ± 0.03
120.0 – 145.0	0.99	0.97	0.96 ± 0.03
145.0 – 175.0	0.97	0.98	0.95 ± 0.04
175.0 – 210.0	0.98	0.94	0.92 ± 0.03
210.0 – 260.0	0.97	0.91	0.88 ± 0.07
260.0 – 350.0	0.90	1.04	0.93 ± 0.13

TABLE LXV: Non-perturbative correction (applied to NLO pQCD predictions) as a function of dijet transverse momentum for events with three or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 15.0	1.00	1.24	1.23 ± 0.06
15.0 – 30.0	1.01	1.12	1.13 ± 0.06
30.0 – 45.0	1.01	1.11	1.12 ± 0.07
45.0 – 65.0	1.00	1.07	1.07 ± 0.06
65.0 – 85.0	1.01	1.04	1.05 ± 0.06
85.0 – 110.0	1.00	0.99	0.98 ± 0.06
110.0 – 140.0	0.99	0.98	0.96 ± 0.03
140.0 – 175.0	0.98	1.00	0.98 ± 0.09
175.0 – 210.0	0.98	0.94	0.92 ± 0.09
210.0 – 280.0	0.91	0.92	0.84 ± 0.11

TABLE LXVI: Non-perturbative correction (applied to NLO pQCD predictions) as a function of dijet invariant mass for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
20.0 – 30.0	1.05	0.91	0.96 ± 0.13
30.0 – 40.0	1.01	1.03	1.04 ± 0.04
40.0 – 50.0	1.01	1.04	1.05 ± 0.06
50.0 – 60.0	1.01	1.07	1.08 ± 0.04
60.0 – 80.0	1.01	1.05	1.06 ± 0.02
80.0 – 100.0	1.01	1.05	1.06 ± 0.02
100.0 – 120.0	1.01	1.03	1.04 ± 0.00
120.0 – 145.0	1.02	1.04	1.06 ± 0.02
145.0 – 175.0	1.01	1.04	1.06 ± 0.00
175.0 – 210.0	1.01	1.07	1.08 ± 0.01
210.0 – 250.0	1.01	1.07	1.08 ± 0.01
250.0 – 300.0	0.99	1.07	1.06 ± 0.01
300.0 – 375.0	1.02	1.07	1.09 ± 0.00

TABLE LXVII: Non-perturbative correction (applied to NLO pQCD predictions) as a function of dijet invariant mass for events with three or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
30.0 – 45.0	0.99	1.20	1.18 ± 0.11
45.0 – 65.0	1.01	1.17	1.18 ± 0.04
65.0 – 85.0	1.01	1.10	1.10 ± 0.06
85.0 – 110.0	1.00	1.08	1.08 ± 0.04
110.0 – 140.0	1.01	1.05	1.07 ± 0.05
140.0 – 175.0	1.01	1.05	1.06 ± 0.04
175.0 – 210.0	1.01	1.06	1.07 ± 0.03
210.0 – 260.0	0.99	1.02	1.01 ± 0.00
260.0 – 330.0	1.02	1.02	1.05 ± 0.02

TABLE LXVIII: Non-perturbative correction (applied to NLO pQCD predictions) as a function of the scalar sum of the transverse energies of the W boson and all jets for events with one or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
100.0 – 120.0	1.00	1.03	1.04 ± 0.02
120.0 – 140.0	1.01	0.99	0.99 ± 0.01
140.0 – 170.0	1.01	0.98	0.99 ± 0.01
170.0 – 200.0	1.01	0.97	0.98 ± 0.01
200.0 – 245.0	1.01	0.97	0.98 ± 0.01
245.0 – 300.0	1.01	0.97	0.98 ± 0.01
300.0 – 360.0	1.00	0.98	0.99 ± 0.00
360.0 – 470.0	1.00	0.98	0.98 ± 0.02

TABLE LXIX: Non-perturbative correction (applied to NLO pQCD predictions) as a function of the scalar sum of the transverse energies of the W boson and all jets for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
120.0 – 135.0	1.01	1.34	1.35 ± 0.06
135.0 – 155.0	1.01	1.05	1.06 ± 0.03
155.0 – 185.0	1.02	1.00	1.02 ± 0.02
185.0 – 230.0	1.01	0.98	0.99 ± 0.02
230.0 – 280.0	1.01	0.97	0.98 ± 0.02
280.0 – 340.0	1.00	0.98	0.99 ± 0.02
340.0 – 390.0	0.99	0.97	0.97 ± 0.02
390.0 – 460.0	1.00	0.98	0.97 ± 0.01

TABLE LXX: Non-perturbative correction (applied to NLO pQCD predictions) as a function of the scalar sum of the transverse energies of the W boson and all jets for events with three or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
140.0 – 165.0	1.00	1.53	1.53 ± 0.04
165.0 – 200.0	1.02	1.12	1.13 ± 0.07
200.0 – 240.0	1.00	1.04	1.04 ± 0.03
240.0 – 290.0	1.01	1.00	1.01 ± 0.03
290.0 – 340.0	0.99	1.03	1.01 ± 0.04
340.0 – 390.0	0.99	0.98	0.97 ± 0.02
390.0 – 450.0	0.99	0.98	0.97 ± 0.00

TABLE LXXI: Non-perturbative correction (applied to NLO pQCD predictions) as a function of the scalar sum of the transverse energies of the W boson and all jets for events with four or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
160.0 – 200.0	1.04	1.71	1.78 ± 0.26
200.0 – 250.0	1.01	1.26	1.27 ± 0.16
250.0 – 310.0	1.01	1.11	1.13 ± 0.07
310.0 – 370.0	0.99	1.07	1.06 ± 0.04
370.0 – 450.0	0.98	0.99	0.96 ± 0.03

TABLE LXXII: Non-perturbative correction (applied to NLO pQCD predictions) as a function of the mean number of jets with $p_T > 20$ GeV and $|y| < 3.2$ as a function of the scalar sum of the transverse energies of the W boson and all jets for events with one or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
100.0 – 120.0	1.00	1.00	1.00 ± 0.00
120.0 – 140.0	1.00	1.03	1.03 ± 0.00
140.0 – 170.0	1.00	1.02	1.02 ± 0.00
170.0 – 200.0	1.00	1.01	1.02 ± 0.01
200.0 – 245.0	1.00	1.01	1.01 ± 0.01
245.0 – 300.0	1.00	1.01	1.01 ± 0.01
300.0 – 360.0	0.99	1.01	1.01 ± 0.01
360.0 – 470.0	0.99	1.01	1.00 ± 0.01

TABLE LXXIII: Non-perturbative correction (applied to NLO pQCD predictions) as a function of the mean number of jets with $p_T > 20$ GeV and $|y| < 3.2$ as a function of the scalar sum of the transverse energies of the W boson and all jets for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
120.0 – 135.0	1.00	1.00	1.00 ± 0.00
135.0 – 155.0	1.00	1.01	1.01 ± 0.00
155.0 – 185.0	1.00	1.01	1.00 ± 0.00
185.0 – 230.0	1.00	1.01	1.01 ± 0.01
230.0 – 280.0	1.00	1.01	1.01 ± 0.01
280.0 – 340.0	1.00	1.01	1.01 ± 0.01
340.0 – 390.0	0.99	1.01	1.01 ± 0.01
390.0 – 460.0	0.99	1.01	1.00 ± 0.01

TABLE LXXIV: Non-perturbative correction (applied to NLO pQCD predictions) as a function of the mean number of jets with $p_T > 20$ GeV and $|y| < 3.2$ as a function of the dijet rapidity separation of the two leading p_T jets for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 0.4	1.00	1.01	1.00 ± 0.00
0.4 – 0.8	1.00	1.00	1.00 ± 0.00
0.8 – 1.2	1.00	1.01	1.01 ± 0.00
1.2 – 1.6	1.00	1.00	1.00 ± 0.00
1.6 – 2.1	1.00	1.00	1.00 ± 0.00
2.1 – 2.6	1.00	1.00	1.00 ± 0.00
2.6 – 3.2	1.00	1.00	1.00 ± 0.00
3.2 – 4.0	1.00	1.00	1.00 ± 0.00
4.0 – 5.0	1.00	1.00	1.00 ± 0.00
5.0 – 6.0	1.01	0.99	1.00 ± 0.00

TABLE LXXV: Non-perturbative correction (applied to NLO pQCD predictions) as a function of the mean number of jets with $p_T > 20$ GeV and $|y| < 3.2$ as a function of the dijet rapidity separation of the most rapidity-separated jets for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 0.4	1.00	1.00	1.00 ± 0.00
0.4 – 0.8	1.00	1.00	1.00 ± 0.00
0.8 – 1.2	1.00	1.00	1.00 ± 0.00
1.2 – 1.6	1.00	1.01	1.00 ± 0.00
1.6 – 2.1	1.00	1.00	1.00 ± 0.00
2.1 – 2.6	1.00	1.00	1.00 ± 0.00
2.6 – 3.2	1.00	1.00	1.00 ± 0.00
3.2 – 4.0	1.00	1.00	1.00 ± 0.00
4.0 – 5.0	1.00	0.99	0.99 ± 0.00
5.0 – 6.0	1.00	0.99	1.00 ± 0.01

TABLE LXXVI: Non-perturbative correction (applied to NLO pQCD predictions) as a function of third jet emission probability as a function of dijet rapidity separation of the two leading p_T jets for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 0.4	0.98	1.06	1.04 ± 0.01
0.4 – 0.8	1.00	1.04	1.03 ± 0.00
0.8 – 1.2	0.99	1.08	1.06 ± 0.02
1.2 – 1.6	0.99	1.04	1.02 ± 0.01
1.6 – 2.1	0.98	1.04	1.03 ± 0.03
2.1 – 2.6	1.02	1.00	1.02 ± 0.01
2.6 – 3.2	1.00	1.05	1.05 ± 0.03
3.2 – 4.0	0.99	1.04	1.03 ± 0.01
4.0 – 5.0	1.04	0.94	0.98 ± 0.03

TABLE LXXVII: Non-perturbative correction (applied to NLO pQCD predictions) as a function of third jet emission probability as a function of dijet rapidity separation of the two most rapidity-separated jets for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 0.4	0.96	1.04	1.00 ± 0.00
0.4 – 0.8	0.98	1.05	1.03 ± 0.01
0.8 – 1.2	0.98	1.09	1.07 ± 0.04
1.2 – 1.6	0.97	1.06	1.02 ± 0.01
1.6 – 2.1	0.99	1.04	1.03 ± 0.02
2.1 – 2.6	0.99	1.01	1.00 ± 0.02
2.6 – 3.2	0.99	1.02	1.01 ± 0.02
3.2 – 4.0	1.01	0.98	0.99 ± 0.02
4.0 – 5.0	1.01	0.93	0.94 ± 0.03
5.0 – 6.0	1.02	0.95	0.97 ± 0.06

TABLE LXXVIII: Non-perturbative correction (applied to NLO pQCD predictions) as a function of third jet emission probability as a function of dijet rapidity separation of the two leading p_T jets, with a requirement that the third jet be emitted between the leading two jets in rapidity, for events with two or more jets produced in association with a W boson. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 0.4	0.95	1.04	0.99 ± 0.00
0.4 – 0.8	0.99	1.08	1.08 ± 0.04
0.8 – 1.2	0.98	1.11	1.09 ± 0.05
1.2 – 1.6	0.99	1.05	1.03 ± 0.01
1.6 – 2.1	1.00	1.03	1.03 ± 0.03
2.1 – 2.6	1.01	0.99	1.00 ± 0.01
2.6 – 3.2	0.99	1.03	1.02 ± 0.04
3.2 – 4.0	0.98	1.02	1.00 ± 0.01
4.0 – 5.0	1.05	0.90	0.95 ± 0.06

TABLE LXXIX: Non-perturbative correction (applied to NLO pQCD predictions) to the measured fraction of $W+2$-jet events having no additional jet emission with $p_T > 20$ GeV and $|y| < 3.2$ into the rapidity interval defined by the two highest p_T jets as a function of the rapidity interval. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 0.4	0.95	1.04	0.99 ± 0.00
0.4 – 0.8	0.99	1.08	1.08 ± 0.04
0.8 – 1.2	0.98	1.11	1.09 ± 0.05
1.2 – 1.6	0.99	1.05	1.03 ± 0.01
1.6 – 2.1	1.00	1.03	1.03 ± 0.03
2.1 – 2.6	1.01	0.99	1.00 ± 0.01
2.6 – 3.2	0.99	1.03	1.02 ± 0.04
3.2 – 4.0	0.98	1.02	1.00 ± 0.01
4.0 – 5.0	1.05	0.90	0.95 ± 0.06
5.0 – 6.0	1.05	0.90	0.95 ± 0.00

TABLE LXXX: Non-perturbative correction (applied to NLO pQCD predictions) to the measured fraction of $W+2$-jet events having no additional jet emission with $p_T > 20$ GeV and $|y| < 3.2$ into the rapidity interval defined by the two most rapidity-separated jets as a function of the rapidity interval. The first number is the SISCONE to midpoint cone jet algorithm correction, the second is the correction for underlying event and hadronization effects, the third is the total correction factor.

Bin interval	$\sigma^{\text{midpoint}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{particle}}$	$\sigma^{\text{SISCONE}}_{\text{particle}}/\sigma^{\text{SISCONE}}_{\text{parton}}$	Total correction
0.0 – 0.4	0.96	1.04	1.00 ± 0.00
0.4 – 0.8	0.98	1.05	1.03 ± 0.01
0.8 – 1.2	0.98	1.09	1.07 ± 0.04
1.2 – 1.6	0.97	1.06	1.02 ± 0.01
1.6 – 2.1	0.99	1.04	1.03 ± 0.02
2.1 – 2.6	0.99	1.01	1.00 ± 0.02
2.6 – 3.2	0.99	1.02	1.01 ± 0.02
3.2 – 4.0	1.01	0.98	0.99 ± 0.02
4.0 – 5.0	1.01	0.93	0.94 ± 0.03
5.0 – 6.0	1.02	0.95	0.97 ± 0.06

APPENDIX B: STATISTICAL UNCERTAINTY CORRELATIONS ON UNFOLDED DISTRIBUTIONS

To appear as an Electronic Physics Auxiliary Publication (EPAPS)

In this appendix, we provide the bin-to-bin correlations on the statistical uncertainties for each measurement made in the main text of the paper, in both graphical and tabular format. These correlations are constructed from the covariance matrix of the unfolded data, where the correlation $corr_{i,j} = \frac{cov_{i,j}}{\sqrt{cov_{i,i}}\sqrt{cov_{j,j}}}$ and $cov_{x,y}$ represents the covariance between each bin x and y. Each correlation matrix is symmetric and has value one along the diagonal by construction. Numerical values of the statistical correlations are given in white font on the plots to assist the reader in resolving the colors.

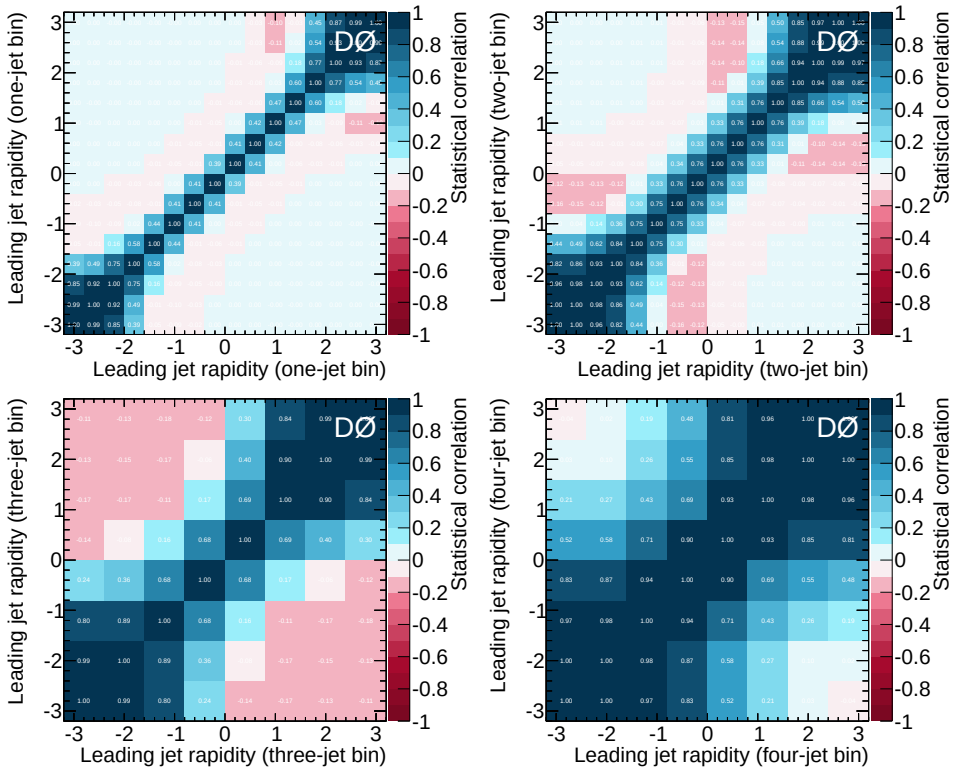

FIG. 28: Statistical uncertainty correlations between bins for unfolded jet rapidity distributions.

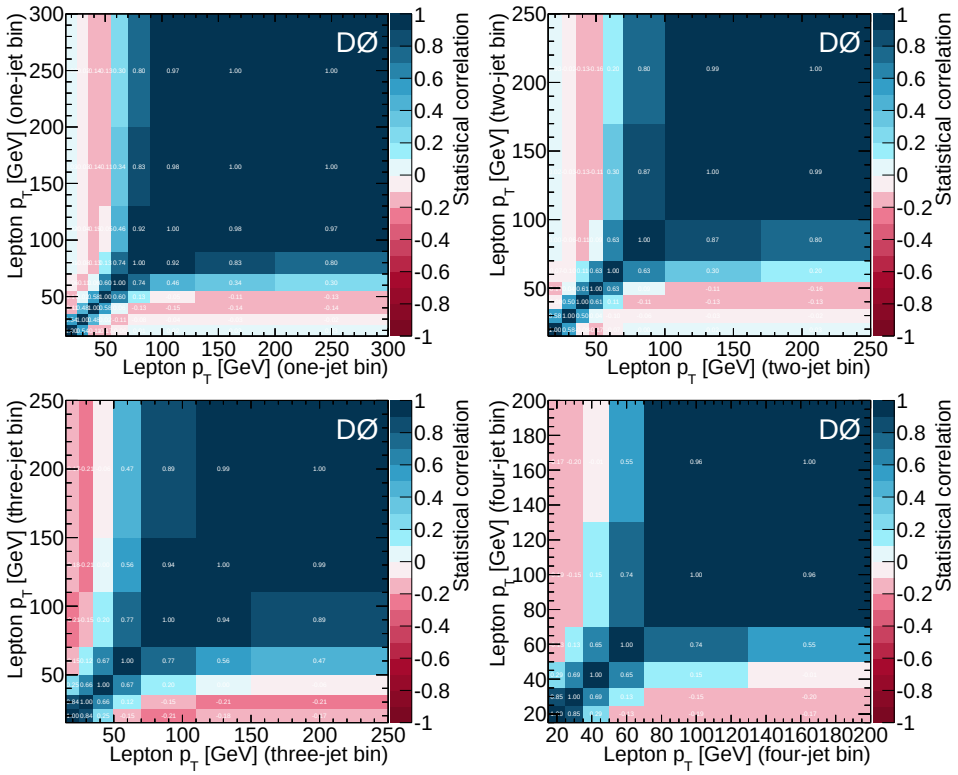

FIG. 29: Statistical uncertainty correlations between bins for unfolded lepton transverse momentum distributions.

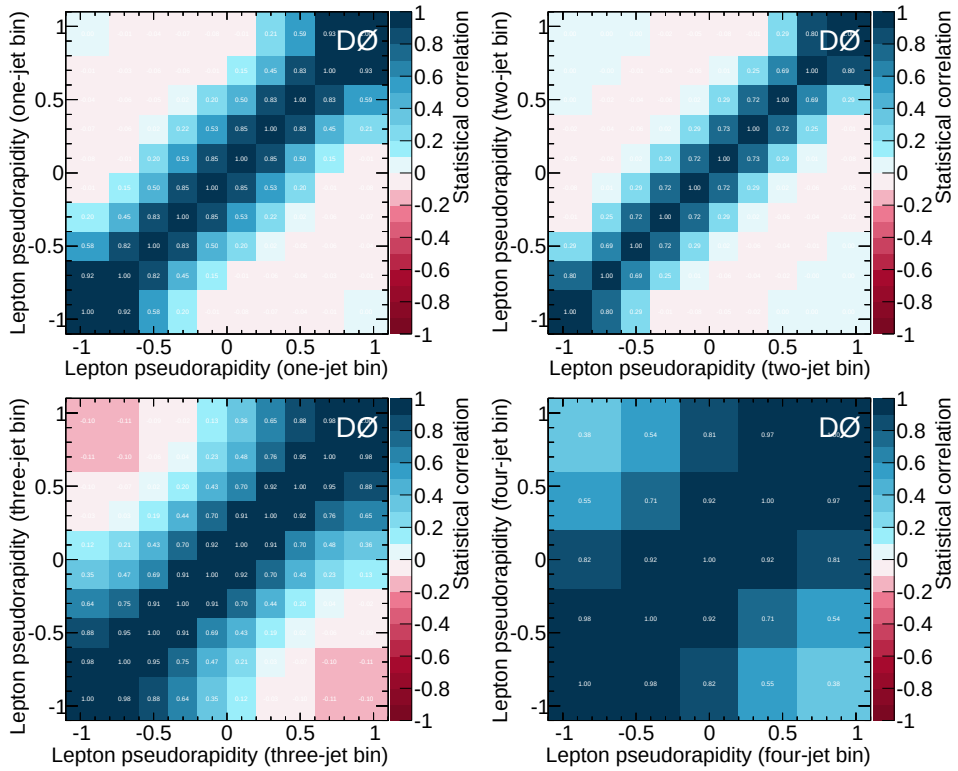

FIG. 30: Statistical uncertainty correlations between bins for unfolded lepton pseudorapidity distributions.

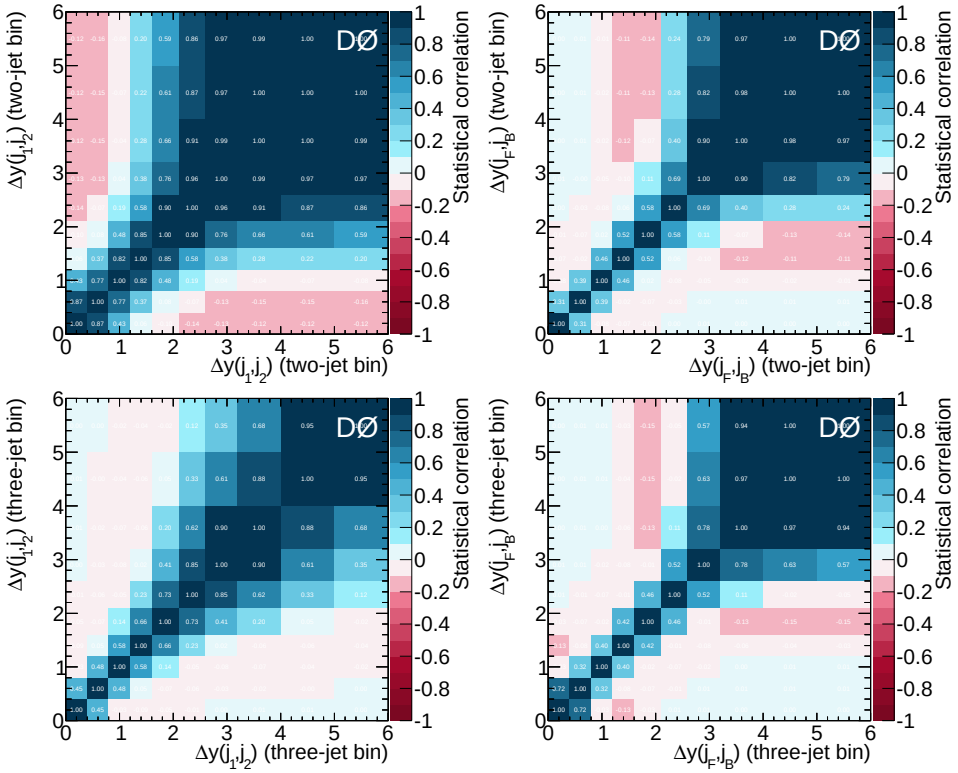

FIG. 31: Statistical uncertainty correlations between bins for unfolded dijet rapidity separations for the two highest p_T or two most rapidity-separated jets.

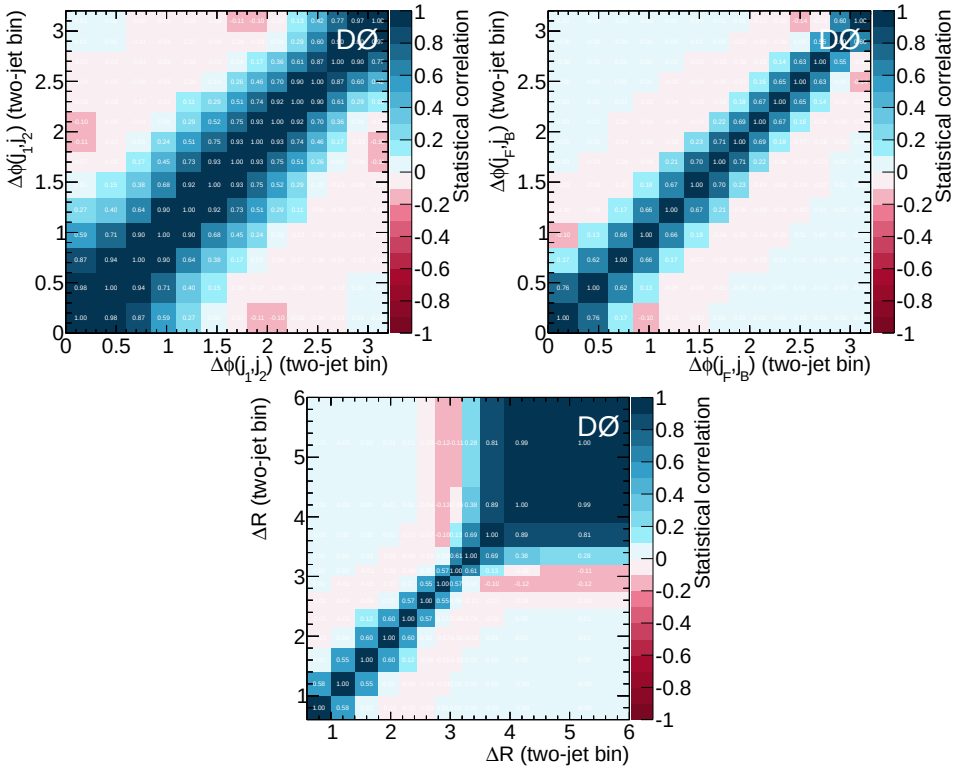

FIG. 32: Statistical uncertainty correlations between bins for unfolded azimuthal angle separation between the two highest p_T or two most rapidity-separated jets, and the dijet angular separation in $\eta - \phi$ space.

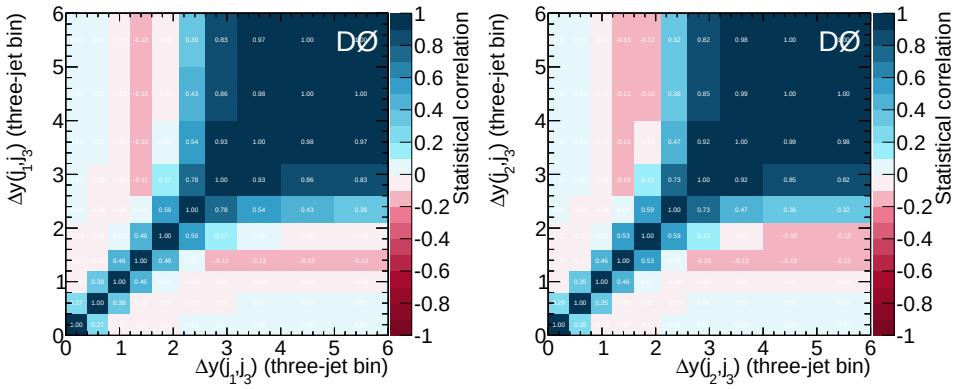

FIG. 33: Statistical uncertainty correlations between bins for unfolded dijet rapidity separation between the highest and second highest p_T jets and the second and third highest p_T jets in $W + 3$-jet events.

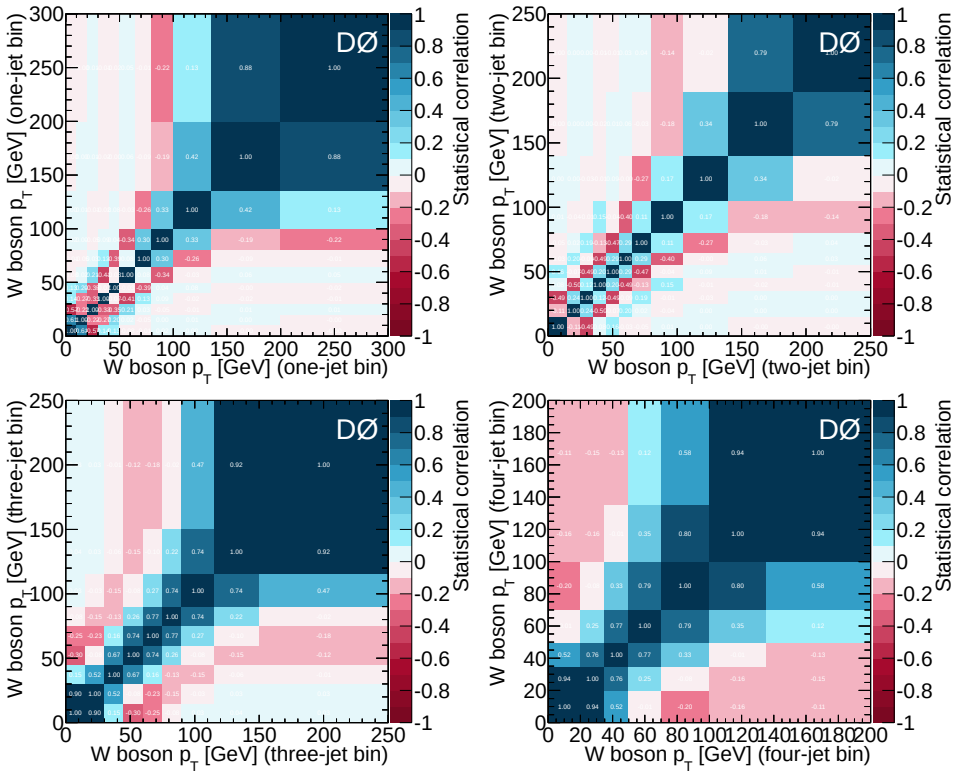

FIG. 34: Statistical uncertainty correlations between bins for unfolded W boson transverse momentum distributions.

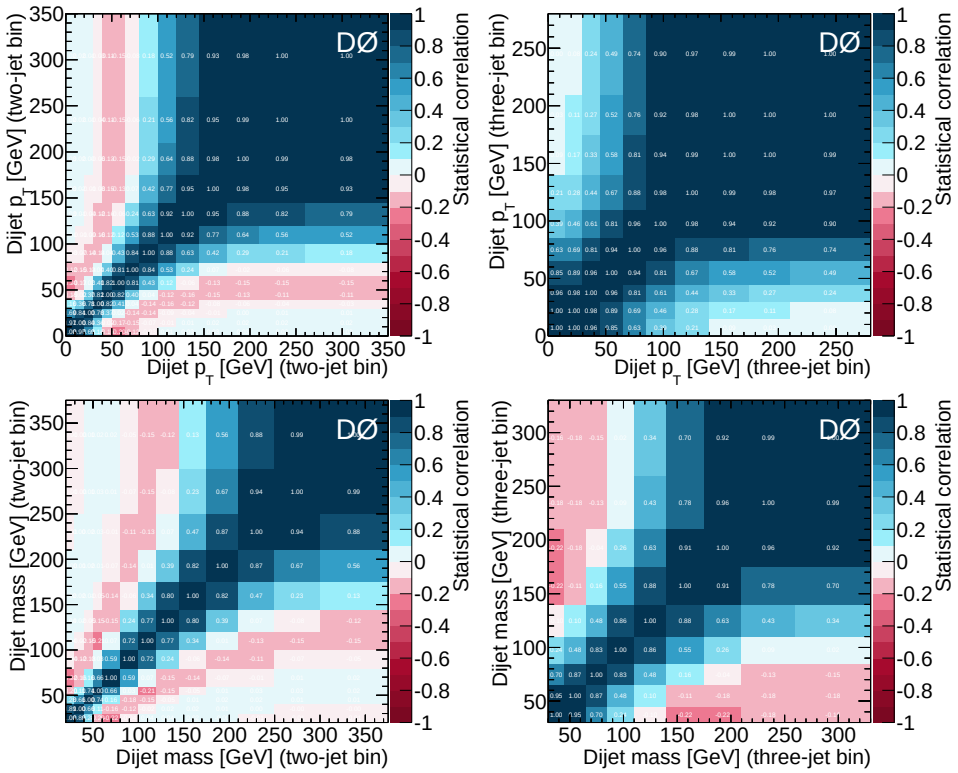

FIG. 35: Statistical uncertainty correlations between bins for unfolded dijet p_T and invariant mass distributions.

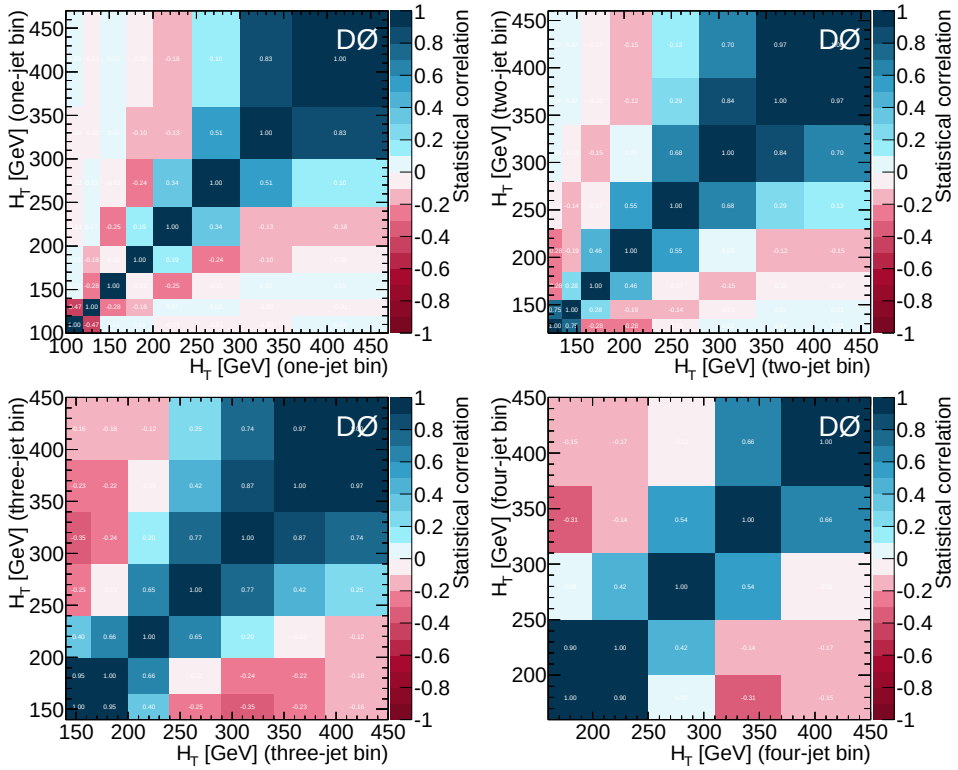

FIG. 36: Statistical uncertainty correlations between bins for unfolded H_T (scalar sum of the transverse energies of the W boson and all jets) distributions.

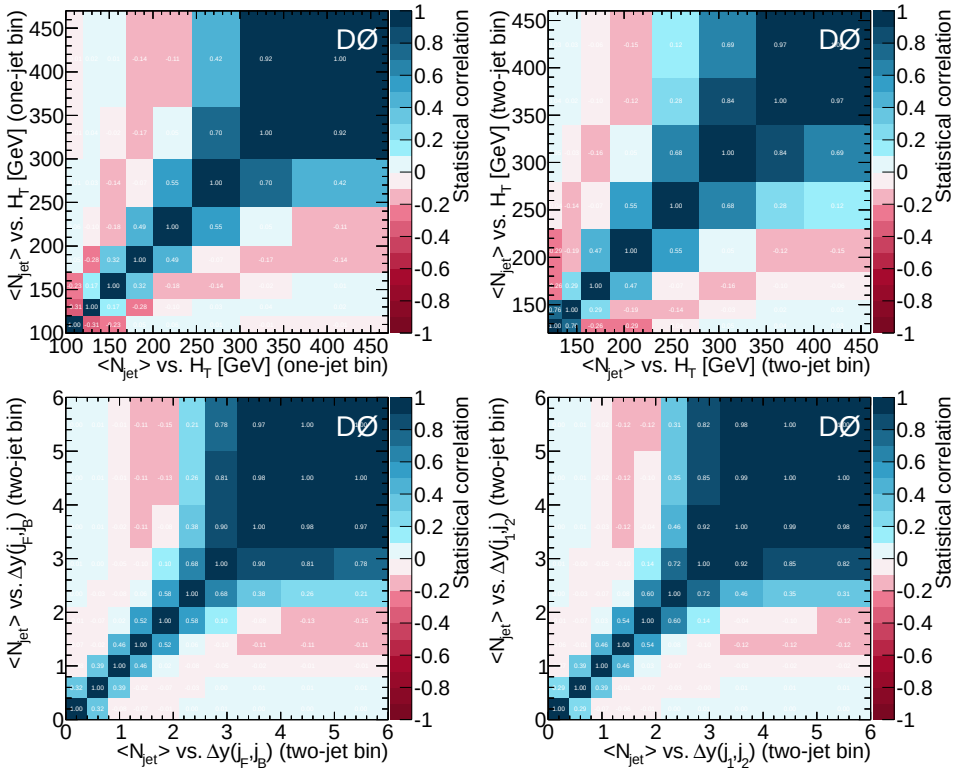

FIG. 37: Statistical uncertainty correlations between bins for the unfolded mean number of jets as a function of H_T in the inclusive one and two jet multiplicity bins and as a function of the dijet rapidity separations for the two highest p_T or two most rapidity-separated jets.

TABLE LXXXI: Statistical correlation matrix for the leading jet rapidity distribution.

Analysis bin	−3.2 : −2.8	−2.8 : −2.4	−2.4 : −2.0	−2.0 : −1.6	−1.6 : −1.2	−1.2 : −0.8	−0.8 : −0.4	−0.4 : 0.0	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.0	2.0 : 2.4	2.4 : 2.8	2.8 : 3.2
2.8 : 3.2	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	−0.03	−0.10	−0.03	+0.45	+0.87	+0.99	+1.00
2.4 : 2.8	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	−0.03	−0.11	+0.02	+0.54	+0.93	+1.00	+0.99
2.0 : 2.4	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	−0.06	−0.09	+0.18	+0.77	+1.00	+0.93	+0.87
1.6 : 2.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	−0.03	−0.08	+0.03	+0.60	+1.00	+0.77	+0.54	+0.45
1.2 : 1.6	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	−0.01	−0.06	+0.00	+0.47	+1.00	+0.60	+0.18	+0.02	−0.03
0.8 : 1.2	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	−0.01	−0.05	+0.00	+0.42	+1.00	+0.47	+0.03	−0.09	−0.11	−0.10
0.4 : 0.8	+0.00	+0.00	+0.00	+0.00	+0.00	−0.01	−0.05	+0.00	+0.41	+1.00	+0.42	+0.00	−0.08	−0.06	−0.03	−0.03
0.0 : 0.4	+0.00	+0.00	+0.00	+0.00	−0.01	−0.05	+0.00	+0.39	+1.00	+0.41	+0.00	−0.06	−0.03	+0.00	+0.00	+0.00
−0.4 : 0.0	+0.00	+0.00	+0.00	−0.03	−0.06	+0.00	+0.41	+1.00	+0.39	+0.00	−0.05	−0.01	+0.00	+0.00	+0.00	+0.00
−0.8 : −0.4	−0.02	−0.03	−0.05	−0.08	−0.01	+0.41	+1.00	+0.41	+0.00	−0.05	−0.01	+0.00	+0.00	+0.00	+0.00	+0.00
−1.2 : −0.8	−0.09	−0.10	−0.09	+0.02	+0.44	+1.00	+0.41	+0.00	−0.05	−0.01	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−1.6 : −1.2	−0.05	+0.00	+0.16	+0.58	+1.00	+0.44	−0.01	−0.06	−0.01	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−2.0 : −1.6	+0.39	+0.49	+0.75	+1.00	+0.58	+0.02	−0.08	−0.03	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−2.4 : −2.0	+0.85	+0.92	+1.00	+0.75	+0.16	−0.09	−0.05	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−2.8 : −2.4	+0.99	+1.00	+0.92	+0.49	+0.00	−0.10	−0.03	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−3.2 : −2.8	+1.00	+0.99	+0.85	+0.39	−0.05	−0.09	−0.02	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE LXXXII: Statistical correlation matrix for the second jet rapidity distribution.

Analysis bin	−3.2 : −2.8	−2.8 : −2.4	−2.4 : −2.0	−2.0 : −1.6	−1.6 : −1.2	−1.2 : −0.8	−0.8 : −0.4	−0.4 : 0.0	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.0	2.0 : 2.4	2.4 : 2.8	2.8 : 3.2
2.8 : 3.2	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	−0.06	−0.13	−0.15	+0.05	+0.50	+0.85	+0.97	+1.00	+1.00
2.4 : 2.8	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	−0.01	−0.06	−0.14	−0.14	+0.08	+0.54	+0.88	+0.99	+1.00	+1.00
2.0 : 2.4	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	−0.02	−0.07	−0.14	−0.10	+0.18	+0.66	+0.94	+1.00	+0.99	+0.97
1.6 : 2.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	−0.04	−0.09	−0.11	+0.01	+0.39	+0.85	+1.00	+0.94	+0.88	+0.85
1.2 : 1.6	+0.00	+0.00	+0.00	+0.00	+0.00	−0.03	−0.07	−0.08	+0.00	+0.31	+0.76	+1.00	+0.85	+0.66	+0.54	+0.50
0.8 : 1.2	+0.00	+0.00	+0.00	+0.00	−0.02	−0.06	−0.07	+0.03	+0.33	+0.76	+1.00	+0.76	+0.39	+0.18	+0.08	+0.05
0.4 : 0.8	+0.00	+0.00	−0.01	−0.03	−0.06	−0.07	+0.04	+0.33	+0.76	+1.00	+0.76	+0.31	+0.01	−0.10	−0.14	−0.15
0.0 : 0.4	−0.05	−0.05	−0.07	−0.09	−0.08	+0.04	+0.34	+0.76	+1.00	+0.76	+0.33	+0.00	−0.11	−0.14	−0.14	−0.13
−0.4 : 0.0	−0.12	−0.13	−0.13	−0.12	+0.00	+0.33	+0.76	+1.00	+0.76	+0.33	+0.03	−0.08	−0.09	−0.07	−0.06	−0.06
−0.8 : −0.4	−0.16	−0.15	−0.12	+0.00	+0.30	+0.75	+1.00	+0.76	+0.34	+0.04	−0.07	−0.07	−0.04	−0.02	−0.01	+0.00
−1.2 : −0.8	+0.00	+0.04	+0.14	+0.36	+0.75	+1.00	+0.75	+0.33	+0.04	−0.07	−0.06	−0.03	+0.00	+0.00	+0.00	+0.00
−1.6 : −1.2	+0.44	+0.49	+0.62	+0.84	+1.00	+0.75	+0.30	+0.00	−0.08	−0.06	−0.02	+0.00	+0.00	+0.00	+0.00	+0.00
−2.0 : −1.6	+0.82	+0.86	+0.93	+1.00	+0.84	+0.36	+0.00	−0.12	−0.09	−0.03	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−2.4 : −2.0	+0.96	+0.98	+1.00	+0.93	+0.62	+0.14	−0.12	−0.13	−0.07	−0.01	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−2.8 : −2.4	+1.00	+1.00	+0.98	+0.86	+0.49	+0.04	−0.15	−0.13	−0.05	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−3.2 : −2.8	+1.00	+1.00	+0.96	+0.82	+0.44	+0.00	−0.16	−0.12	−0.05	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE LXXXIII: Statistical correlation matrix for the third jet rapidity distribution.

Analysis bin	−3.2 : −2.4	−2.4 : −1.6	−1.6 : −0.8	−0.8 : 0.0	0.0 : 0.8	0.8 : 1.6	1.6 : 2.4	2.4 : 3.2
2.4 : 3.2	−0.11	−0.13	−0.18	−0.12	+0.30	+0.84	+0.99	+1.00
1.6 : 2.4	−0.13	−0.15	−0.17	−0.06	+0.40	+0.90	+1.00	+0.99
0.8 : 1.6	−0.17	−0.17	−0.11	+0.17	+0.69	+1.00	+0.90	+0.84
0.0 : 0.8	−0.14	−0.08	+0.16	+0.68	+1.00	+0.69	+0.40	+0.30
−0.8 : 0.0	+0.24	+0.36	+0.68	+1.00	+0.68	+0.17	−0.06	−0.12
−1.6 : −0.8	+0.80	+0.89	+1.00	+0.68	+0.16	−0.11	−0.17	−0.18
−2.4 : −1.6	+0.99	+1.00	+0.89	+0.36	−0.08	−0.17	−0.15	−0.13
−3.2 : −2.4	+1.00	+0.99	+0.80	+0.24	−0.14	−0.17	−0.13	−0.11

TABLE LXXXIV: Statistical correlation matrix for the fourth jet rapidity distribution.

Analysis bin	−3.2 : −2.4	−2.4 : −1.6	−1.6 : −0.8	−0.8 : 0.0	0.0 : 0.8	0.8 : 1.6	1.6 : 2.4	2.4 : 3.2
2.4 : 3.2	−0.04	+0.02	+0.19	+0.48	+0.81	+0.96	+1.00	+1.00
1.6 : 2.4	+0.03	+0.10	+0.26	+0.55	+0.85	+0.98	+1.00	+1.00
0.8 : 1.6	+0.21	+0.27	+0.43	+0.69	+0.93	+1.00	+0.98	+0.96
0.0 : 0.8	+0.52	+0.58	+0.71	+0.90	+1.00	+0.93	+0.85	+0.81
−0.8 : 0.0	+0.83	+0.87	+0.94	+1.00	+0.90	+0.69	+0.55	+0.48
−1.6 : −0.8	+0.97	+0.98	+1.00	+0.94	+0.71	+0.43	+0.26	+0.19
−2.4 : −1.6	+1.00	+1.00	+0.98	+0.87	+0.58	+0.27	+0.10	+0.02
−3.2 : −2.4	+1.00	+1.00	+0.97	+0.83	+0.52	+0.21	+0.03	−0.04

TABLE LXXXV: Statistical correlation matrix for the lepton p_T [one-jet] distribution.

Analysis bin	0.0 : 5.0	5.0 : 10.0	10.0 : 15.0	15.0 : 25.0	25.0 : 35.0	35.0 : 45.0	45.0 : 55.0	55.0 : 70.0	70.0 : 90.0	90.0 : 130.0	130.0 : 200.0	200.0 : 300.0
200.0 : 300.0	+0.04	+0.04	+0.04	+0.03	−0.02	−0.14	−0.13	+0.30	+0.80	+0.97	+1.00	+1.00
130.0 : 200.0	+0.04	+0.04	+0.04	+0.03	−0.03	−0.14	−0.11	+0.34	+0.83	+0.98	+1.00	+1.00
90.0 : 130.0	+0.04	+0.04	+0.04	+0.02	−0.04	−0.15	−0.05	+0.46	+0.92	+1.00	+0.98	+0.97
70.0 : 90.0	+0.04	+0.03	+0.03	+0.00	−0.08	−0.13	+0.13	+0.74	+1.00	+0.92	+0.83	+0.80
55.0 : 70.0	−0.02	−0.03	−0.03	−0.06	−0.11	+0.06	+0.60	+1.00	+0.74	+0.46	+0.34	+0.30
45.0 : 55.0	−0.20	−0.20	−0.19	−0.17	+0.02	+0.58	+1.00	+0.60	+0.13	−0.05	−0.11	−0.13
35.0 : 45.0	−0.31	−0.30	−0.25	−0.11	+0.48	+1.00	+0.58	+0.06	−0.13	−0.15	−0.14	−0.14
25.0 : 35.0	+0.22	+0.24	+0.32	+0.54	+1.00	+0.48	+0.02	−0.11	−0.08	−0.04	−0.03	−0.02
15.0 : 25.0	+0.94	+0.95	+0.97	+1.00	+0.54	−0.11	−0.17	−0.06	+0.00	+0.02	+0.03	+0.03
10.0 : 15.0	+0.99	+1.00	+1.00	+0.97	+0.32	−0.25	−0.19	−0.03	+0.03	+0.04	+0.04	+0.04
5.0 : 10.0	+1.00	+1.00	+1.00	+0.95	+0.24	−0.30	−0.20	−0.03	+0.03	+0.04	+0.04	+0.04
0.0 : 5.0	+1.00	+1.00	+0.99	+0.94	+0.22	−0.31	−0.20	−0.02	+0.04	+0.04	+0.04	+0.04

TABLE LXXXVI: Statistical correlation matrix for the lepton p_T [two-jet] distribution.

Analysis bin	0.0 : 5.0	5.0 : 10.0	10.0 : 15.0	15.0 : 25.0	25.0 : 35.0	35.0 : 45.0	45.0 : 55.0	55.0 : 70.0	70.0 : 100.0	100.0 : 170.0	170.0 : 250.0
170.0 : 250.0	+0.04	+0.04	+0.03	+0.03	−0.02	−0.13	−0.16	+0.20	+0.80	+0.99	+1.00
100.0 : 170.0	+0.04	+0.04	+0.03	+0.02	−0.03	−0.13	−0.11	+0.30	+0.87	+1.00	+0.99
70.0 : 100.0	+0.03	+0.03	+0.02	+0.00	−0.06	−0.11	+0.09	+0.63	+1.00	+0.87	+0.80
55.0 : 70.0	−0.05	−0.05	−0.06	−0.07	−0.10	+0.11	+0.63	+1.00	+0.63	+0.30	+0.20
45.0 : 55.0	−0.22	−0.21	−0.21	−0.17	+0.04	+0.61	+1.00	+0.63	+0.09	−0.11	−0.16
35.0 : 45.0	−0.30	−0.28	−0.23	−0.08	+0.50	+1.00	+0.61	+0.11	−0.11	−0.13	−0.13
25.0 : 35.0	+0.26	+0.29	+0.37	+0.58	+1.00	+0.50	+0.04	−0.10	−0.06	−0.03	−0.02
15.0 : 25.0	+0.94	+0.95	+0.97	+1.00	+0.58	−0.08	−0.17	−0.07	+0.00	+0.02	+0.03
10.0 : 15.0	+0.99	+1.00	+1.00	+0.97	+0.37	−0.23	−0.21	−0.06	+0.02	+0.03	+0.03
5.0 : 10.0	+1.00	+1.00	+1.00	+0.95	+0.29	−0.28	−0.21	−0.05	+0.03	+0.04	+0.04
0.0 : 5.0	+1.00	+1.00	+0.99	+0.94	+0.26	−0.30	−0.22	−0.05	+0.03	+0.04	+0.04

TABLE LXXXVII: Statistical correlation matrix for the lepton p_T [three-jet] distribution.

Analysis bin	0.0 : 5.0	5.0 : 10.0	10.0 : 15.0	15.0 : 25.0	25.0 : 35.0	35.0 : 50.0	50.0 : 70.0	70.0 : 110.0	110.0 : 150.0	150.0 : 250.0
150.0 : 250.0	−0.12	−0.12	−0.14	−0.17	−0.21	−0.06	+0.47	+0.89	+0.99	+1.00
110.0 : 150.0	−0.14	−0.15	−0.16	−0.18	−0.21	+0.00	+0.56	+0.94	+1.00	+0.99
70.0 : 110.0	−0.21	−0.21	−0.21	−0.21	−0.15	+0.20	+0.77	+1.00	+0.94	+0.89
50.0 : 70.0	−0.28	−0.27	−0.24	−0.15	+0.12	+0.67	+1.00	+0.77	+0.56	+0.47
35.0 : 50.0	+0.00	+0.02	+0.08	+0.25	+0.66	+1.00	+0.67	+0.20	+0.00	−0.06
25.0 : 35.0	+0.65	+0.67	+0.72	+0.84	+1.00	+0.66	+0.12	−0.15	−0.21	−0.21
15.0 : 25.0	+0.96	+0.96	+0.98	+1.00	+0.84	+0.25	−0.15	−0.21	−0.18	−0.17
10.0 : 15.0	+0.99	+1.00	+1.00	+0.98	+0.72	+0.08	−0.24	−0.21	−0.16	−0.14
5.0 : 10.0	+1.00	+1.00	+1.00	+0.96	+0.67	+0.02	−0.27	−0.21	−0.15	−0.12
0.0 : 5.0	+1.00	+1.00	+0.99	+0.96	+0.65	+0.00	−0.28	−0.21	−0.14	−0.12

TABLE LXXXVIII: Statistical correlation matrix for the lepton p_T [four-jet] distribution.

Analysis bin	0.0 : 5.0	5.0 : 10.0	10.0 : 15.0	15.0 : 25.0	25.0 : 35.0	35.0 : 50.0	50.0 : 70.0	70.0 : 130.0	130.0 : 200.0
130.0 : 200.0	−0.13	−0.14	−0.15	−0.17	−0.20	+0.00	+0.55	+0.96	+1.00
70.0 : 130.0	−0.18	−0.18	−0.19	−0.19	−0.15	+0.15	+0.74	+1.00	+0.96
50.0 : 70.0	−0.25	−0.24	−0.20	−0.13	+0.13	+0.65	+1.00	+0.74	+0.55
35.0 : 50.0	+0.03	+0.06	+0.12	+0.29	+0.69	+1.00	+0.65	+0.15	+0.00
25.0 : 35.0	+0.66	+0.68	+0.73	+0.85	+1.00	+0.69	+0.13	−0.15	−0.20
15.0 : 25.0	+0.96	+0.96	+0.98	+1.00	+0.85	+0.29	−0.13	−0.19	−0.17
10.0 : 15.0	+0.99	+1.00	+1.00	+0.98	+0.73	+0.12	−0.20	−0.19	−0.15
5.0 : 10.0	+1.00	+1.00	+1.00	+0.96	+0.68	+0.06	−0.24	−0.18	−0.14
0.0 : 5.0	+1.00	+1.00	+0.99	+0.96	+0.66	+0.03	−0.25	−0.18	−0.13

TABLE LXXXIX: Statistical correlation matrix for the lepton pseudorapidity [one-jet] distribution.

Analysis bin	−1.1 : −0.8	−0.8 : −0.6	−0.6 : −0.4	−0.4 : −0.2	−0.2 : 0.0	0.0 : 0.2	0.2 : 0.4	0.4 : 0.6	0.6 : 0.8	0.8 : 1.1
0.8 : 1.1	+0.00	−0.01	−0.04	−0.07	−0.08	+0.00	+0.21	+0.59	+0.93	+1.00
0.6 : 0.8	−0.01	−0.03	−0.06	−0.06	−0.01	+0.15	+0.45	+0.83	+1.00	+0.93
0.4 : 0.6	−0.04	−0.06	−0.05	+0.02	+0.20	+0.50	+0.83	+1.00	+0.83	+0.59
0.2 : 0.4	−0.07	−0.06	+0.02	+0.22	+0.53	+0.85	+1.00	+0.83	+0.45	+0.21
0.0 : 0.2	−0.08	−0.01	+0.20	+0.53	+0.85	+1.00	+0.85	+0.50	+0.15	+0.00
−0.2 : 0.0	−0.01	+0.15	+0.50	+0.85	+1.00	+0.85	+0.53	+0.20	−0.01	−0.08
−0.4 : −0.2	+0.20	+0.45	+0.83	+1.00	+0.85	+0.53	+0.22	+0.02	−0.06	−0.07
−0.6 : −0.4	+0.58	+0.82	+1.00	+0.83	+0.50	+0.20	+0.02	−0.05	−0.06	−0.04
−0.8 : −0.6	+0.92	+1.00	+0.82	+0.45	+0.15	−0.01	−0.06	−0.06	−0.03	−0.01
−1.1 : −0.8	+1.00	+0.92	+0.58	+0.20	−0.01	−0.08	−0.07	−0.04	−0.01	+0.00

TABLE XC: Statistical correlation matrix for the lepton pseudorapidity [two-jet] distribution.

Analysis bin	−1.1 : −0.8	−0.8 : −0.6	−0.6 : −0.4	−0.4 : −0.2	−0.2 : 0.0	0.0 : 0.2	0.2 : 0.4	0.4 : 0.6	0.6 : 0.8	0.8 : 1.1
0.8 : 1.1	+0.00	+0.00	+0.00	−0.02	−0.05	−0.08	+0.00	+0.29	+0.80	+1.00
0.6 : 0.8	+0.00	+0.00	−0.01	−0.04	−0.06	+0.00	+0.25	+0.69	+1.00	+0.80
0.4 : 0.6	+0.00	−0.02	−0.04	−0.06	+0.02	+0.29	+0.72	+1.00	+0.69	+0.29
0.2 : 0.4	−0.02	−0.04	−0.06	+0.02	+0.29	+0.73	+1.00	+0.72	+0.25	+0.00
0.0 : 0.2	−0.05	−0.06	+0.02	+0.29	+0.72	+1.00	+0.73	+0.29	+0.00	−0.08
−0.2 : 0.0	−0.08	+0.00	+0.29	+0.72	+1.00	+0.72	+0.29	+0.02	−0.06	−0.05
−0.4 : −0.2	−0.01	+0.25	+0.72	+1.00	+0.72	+0.29	+0.02	−0.06	−0.04	−0.02
−0.6 : −0.4	+0.29	+0.69	+1.00	+0.72	+0.29	+0.02	−0.06	−0.04	−0.01	+0.00
−0.8 : −0.6	+0.80	+1.00	+0.69	+0.25	+0.00	−0.06	−0.04	−0.02	+0.00	+0.00
−1.1 : −0.8	+1.00	+0.80	+0.29	−0.01	−0.08	−0.05	−0.02	+0.00	+0.00	+0.00

TABLE XCI: Statistical correlation matrix for the lepton pseudorapidity [three-jet] distribution.

Analysis bin	−1.1 : −0.8	−0.8 : −0.6	−0.6 : −0.4	−0.4 : −0.2	−0.2 : 0.0	0.0 : 0.2	0.2 : 0.4	0.4 : 0.6	0.6 : 0.8	0.8 : 1.1
0.8 : 1.1	−0.10	−0.11	−0.09	−0.02	+0.13	+0.36	+0.65	+0.88	+0.98	+1.00
0.6 : 0.8	−0.11	−0.10	−0.06	+0.04	+0.23	+0.48	+0.76	+0.95	+1.00	+0.98
0.4 : 0.6	−0.10	−0.07	+0.02	+0.20	+0.43	+0.70	+0.92	+1.00	+0.95	+0.88
0.2 : 0.4	−0.03	+0.03	+0.19	+0.44	+0.70	+0.91	+1.00	+0.92	+0.76	+0.65
0.0 : 0.2	+0.12	+0.21	+0.43	+0.70	+0.92	+1.00	+0.91	+0.70	+0.48	+0.36
−0.2 : 0.0	+0.35	+0.47	+0.69	+0.91	+1.00	+0.92	+0.70	+0.43	+0.23	+0.13
−0.4 : −0.2	+0.64	+0.75	+0.91	+1.00	+0.91	+0.70	+0.44	+0.20	+0.04	−0.02
−0.6 : −0.4	+0.88	+0.95	+1.00	+0.91	+0.69	+0.43	+0.19	+0.02	−0.06	−0.09
−0.8 : −0.6	+0.98	+1.00	+0.95	+0.75	+0.47	+0.21	+0.03	−0.07	−0.10	−0.11
−1.1 : −0.8	+1.00	+0.98	+0.88	+0.64	+0.35	+0.12	−0.03	−0.10	−0.11	−0.10

TABLE XCII: Statistical correlation matrix for the lepton pseudorapidity [four-jet] distribution.

Analysis bin	−1.1 : −0.6	−0.6 : −0.2	−0.2 : 0.2	0.2 : 0.6	0.6 : 1.1
0.6 : 1.1	+0.38	+0.54	+0.81	+0.97	+1.00
0.2 : 0.6	+0.55	+0.71	+0.92	+1.00	+0.97
−0.2 : 0.2	+0.82	+0.92	+1.00	+0.92	+0.81
−0.6 : −0.2	+0.98	+1.00	+0.92	+0.71	+0.54
−1.1 : −0.6	+1.00	+0.98	+0.82	+0.55	+0.38

TABLE XCIII: Statistical correlation matrix for the Δy_{12} [two-jet] distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	−0.12	−0.16	−0.08	+0.20	+0.59	+0.86	+0.97	+0.99	+1.00	+1.00
4.0 : 5.0	−0.12	−0.15	−0.07	+0.22	+0.61	+0.87	+0.97	+1.00	+1.00	+1.00
3.2 : 4.0	−0.12	−0.15	−0.04	+0.28	+0.66	+0.91	+0.99	+1.00	+1.00	+0.99
2.6 : 3.2	−0.13	−0.13	+0.04	+0.38	+0.76	+0.96	+1.00	+0.99	+0.97	+0.97
2.1 : 2.6	−0.14	−0.07	+0.19	+0.58	+0.90	+1.00	+0.96	+0.91	+0.87	+0.86
1.6 : 2.1	−0.10	+0.08	+0.48	+0.85	+1.00	+0.90	+0.76	+0.66	+0.61	+0.59
1.2 : 1.6	+0.06	+0.37	+0.82	+1.00	+0.85	+0.58	+0.38	+0.28	+0.22	+0.20
0.8 : 1.2	+0.43	+0.77	+1.00	+0.82	+0.48	+0.19	+0.04	−0.04	−0.07	−0.08
0.4 : 0.8	+0.87	+1.00	+0.77	+0.37	+0.08	−0.07	−0.13	−0.15	−0.15	−0.16
0.0 : 0.4	+1.00	+0.87	+0.43	+0.06	−0.10	−0.14	−0.13	−0.12	−0.12	−0.12

TABLE XCIV: Statistical correlation matrix for the Δy_{FB} [two-jet] distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	+0.00	+0.01	−0.01	−0.11	−0.14	+0.24	+0.79	+0.97	+1.00	+1.00
4.0 : 5.0	+0.00	+0.01	−0.02	−0.11	−0.13	+0.28	+0.82	+0.98	+1.00	+1.00
3.2 : 4.0	+0.00	+0.00	−0.02	−0.12	−0.07	+0.40	+0.90	+1.00	+0.98	+0.97
2.6 : 3.2	+0.00	+0.00	−0.05	−0.10	+0.11	+0.69	+1.00	+0.90	+0.82	+0.79
2.1 : 2.6	+0.00	−0.03	−0.08	+0.06	+0.58	+1.00	+0.69	+0.40	+0.28	+0.24
1.6 : 2.1	−0.01	−0.07	+0.02	+0.52	+1.00	+0.58	+0.11	−0.07	−0.13	−0.14
1.2 : 1.6	−0.07	−0.02	+0.46	+1.00	+0.52	+0.06	−0.10	−0.12	−0.11	−0.11
0.8 : 1.2	−0.08	+0.39	+1.00	+0.46	+0.02	−0.08	−0.05	−0.02	−0.02	−0.01
0.4 : 0.8	+0.31	+1.00	+0.39	−0.02	−0.07	−0.03	+0.00	+0.00	+0.01	+0.01
0.0 : 0.4	+1.00	+0.31	−0.08	−0.07	−0.01	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE XCV: Statistical correlation matrix for the Δy_{12} [three-jet] distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	+0.00	+0.00	−0.02	−0.04	−0.02	+0.12	+0.35	+0.68	+0.95	+1.00
4.0 : 5.0	+0.00	+0.00	−0.04	−0.06	+0.05	+0.33	+0.61	+0.88	+1.00	+0.95
3.2 : 4.0	+0.00	−0.02	−0.07	−0.06	+0.20	+0.62	+0.90	+1.00	+0.88	+0.68
2.6 : 3.2	+0.00	−0.03	−0.08	+0.02	+0.41	+0.85	+1.00	+0.90	+0.61	+0.35
2.1 : 2.6	+0.00	−0.06	−0.05	+0.23	+0.73	+1.00	+0.85	+0.62	+0.33	+0.12
1.6 : 2.1	−0.05	−0.07	+0.14	+0.66	+1.00	+0.73	+0.41	+0.20	+0.05	−0.02
1.2 : 1.6	−0.09	+0.05	+0.58	+1.00	+0.66	+0.23	+0.02	−0.06	−0.06	−0.04
0.8 : 1.2	−0.03	+0.48	+1.00	+0.58	+0.14	−0.05	−0.08	−0.07	−0.04	−0.02
0.4 : 0.8	+0.45	+1.00	+0.48	+0.05	−0.07	−0.06	−0.03	−0.02	+0.00	+0.00
0.0 : 0.4	+1.00	+0.45	−0.03	−0.09	−0.05	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE XCVI: Statistical correlation matrix for the Δy_{FB} [three-jet] distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	+0.00	+0.00	+0.00	−0.03	−0.15	−0.05	+0.57	+0.94	+1.00	+1.00
4.0 : 5.0	+0.00	+0.00	+0.00	−0.04	−0.15	−0.02	+0.63	+0.97	+1.00	+1.00
3.2 : 4.0	+0.00	+0.00	+0.00	−0.06	−0.13	+0.11	+0.78	+1.00	+0.97	+0.94
2.6 : 3.2	+0.00	+0.00	−0.02	−0.08	+0.00	+0.52	+1.00	+0.78	+0.63	+0.57
2.1 : 2.6	+0.00	−0.01	−0.07	−0.01	+0.46	+1.00	+0.52	+0.11	−0.02	−0.05
1.6 : 2.1	−0.03	−0.07	−0.02	+0.42	+1.00	+0.46	+0.00	−0.13	−0.15	−0.15
1.2 : 1.6	−0.13	−0.08	+0.40	+1.00	+0.42	−0.01	−0.08	−0.06	−0.04	−0.03
0.8 : 1.2	−0.03	+0.32	+1.00	+0.40	−0.02	−0.07	−0.02	+0.00	+0.00	+0.00
0.4 : 0.8	+0.72	+1.00	+0.32	−0.08	−0.07	−0.01	+0.00	+0.00	+0.00	+0.00
0.0 : 0.4	+1.00	+0.72	−0.03	−0.13	−0.03	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE XCVII: Statistical correlation matrix for the $\Delta\phi_{12}$ distribution.

Analysis bin	0.0 : 0.3	0.3 : 0.6	0.6 : 0.9	0.9 : 1.1	1.1 : 1.4	1.4 : 1.6	1.6 : 1.8	1.8 : 2.0	2.0 : 2.2	2.2 : 2.4	2.4 : 2.6	2.6 : 2.8	2.8 : 3.0	3.0 : 3.2
3.0 : 3.2	+0.01	+0.00	+0.00	−0.03	−0.06	−0.09	−0.11	−0.10	−0.03	+0.13	+0.42	+0.77	+0.97	+1.00
2.8 : 3.0	+0.00	+0.00	−0.01	−0.04	−0.07	−0.08	−0.08	−0.03	+0.09	+0.29	+0.60	+0.90	+1.00	+0.97
2.6 : 2.8	−0.01	−0.02	−0.04	−0.06	−0.06	−0.03	+0.04	+0.17	+0.36	+0.61	+0.87	+1.00	+0.90	+0.77
2.4 : 2.6	−0.04	−0.05	−0.06	−0.05	+0.00	+0.10	+0.26	+0.46	+0.70	+0.90	+1.00	+0.87	+0.60	+0.42
2.2 : 2.4	−0.08	−0.08	−0.07	+0.00	+0.11	+0.29	+0.51	+0.74	+0.92	+1.00	+0.90	+0.61	+0.29	+0.13
2.0 : 2.2	−0.10	−0.09	−0.04	+0.09	+0.29	+0.52	+0.75	+0.93	+1.00	+0.92	+0.70	+0.36	+0.09	−0.03
1.8 : 2.0	−0.11	−0.07	+0.03	+0.24	+0.51	+0.75	+0.93	+1.00	+0.93	+0.74	+0.46	+0.17	−0.03	−0.10
1.6 : 1.8	−0.07	+0.00	+0.17	+0.45	+0.73	+0.93	+1.00	+0.93	+0.75	+0.51	+0.26	+0.04	−0.08	−0.11
1.4 : 1.6	+0.05	+0.15	+0.38	+0.68	+0.92	+1.00	+0.93	+0.75	+0.52	+0.29	+0.10	−0.03	−0.08	−0.09
1.1 : 1.4	+0.27	+0.40	+0.64	+0.90	+1.00	+0.92	+0.73	+0.51	+0.29	+0.11	+0.00	−0.06	−0.07	−0.06
0.9 : 1.1	+0.59	+0.71	+0.90	+1.00	+0.90	+0.68	+0.45	+0.24	+0.09	+0.00	−0.05	−0.06	−0.04	−0.03
0.6 : 0.9	+0.87	+0.94	+1.00	+0.90	+0.64	+0.38	+0.17	+0.03	−0.04	−0.07	−0.06	−0.04	−0.01	+0.00
0.3 : 0.6	+0.98	+1.00	+0.94	+0.71	+0.40	+0.15	+0.00	−0.07	−0.09	−0.08	−0.05	−0.02	+0.00	+0.00
0.0 : 0.3	+1.00	+0.98	+0.87	+0.59	+0.27	+0.05	−0.07	−0.11	−0.10	−0.08	−0.04	−0.01	+0.00	+0.01

TABLE XCVIII: Statistical correlation matrix for the $\Delta\phi_{FB}$ distribution.

Analysis bin	0.0 : 0.3	0.3 : 0.6	0.6 : 0.9	0.9 : 1.1	1.1 : 1.4	1.4 : 1.6	1.6 : 1.8	1.8 : 2.0	2.0 : 2.2	2.2 : 2.4	2.4 : 2.6	2.6 : 2.8	2.8 : 3.0	3.0 : 3.2
3.0 : 3.2	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**−0.02**	**−0.08**	**−0.14**	+0.00	**+0.60**	**+1.00**
2.8 : 3.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**−0.02**	**−0.08**	**−0.09**	**+0.08**	**+0.55**	**+1.00**	**+0.60**
2.6 : 2.8	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**−0.03**	**−0.08**	**−0.08**	**+0.14**	**+0.63**	**+1.00**	**+0.55**	+0.00
2.4 : 2.6	+0.00	+0.00	+0.00	+0.00	+0.00	**−0.04**	**−0.09**	**−0.07**	**+0.16**	**+0.65**	**+1.00**	**+0.63**	**+0.08**	**−0.14**
2.2 : 2.4	+0.00	+0.00	+0.00	+0.00	**−0.04**	**−0.09**	**−0.06**	**+0.18**	**+0.67**	**+1.00**	**+0.65**	**+0.14**	**−0.09**	**−0.08**
2.0 : 2.2	+0.00	+0.00	+0.00	**−0.04**	**−0.08**	**−0.04**	**+0.22**	**+0.69**	**+1.00**	**+0.67**	**+0.16**	**−0.08**	**−0.08**	**−0.02**
1.8 : 2.0	+0.00	+0.00	**−0.04**	**−0.08**	**−0.05**	**+0.23**	**+0.71**	**+1.00**	**+0.69**	**+0.18**	**−0.07**	**−0.08**	**−0.02**	+0.00
1.6 : 1.8	+0.00	**−0.03**	**−0.09**	**−0.06**	**+0.21**	**+0.70**	**+1.00**	**+0.71**	**+0.22**	**−0.06**	**−0.09**	**−0.03**	+0.00	+0.00
1.4 : 1.6	**−0.03**	**−0.08**	**−0.07**	**+0.18**	**+0.67**	**+1.00**	**+0.70**	**+0.23**	**−0.04**	**−0.09**	**−0.04**	+0.00	+0.00	+0.00
1.1 : 1.4	**−0.10**	**−0.08**	**+0.17**	**+0.66**	**+1.00**	**+0.67**	**+0.21**	**−0.05**	**−0.08**	**−0.04**	+0.00	+0.00	+0.00	+0.00
0.9 : 1.1	**−0.10**	**+0.13**	**+0.66**	**+1.00**	**+0.66**	**+0.18**	**−0.06**	**−0.08**	**−0.04**	+0.00	+0.00	+0.00	+0.00	+0.00
0.6 : 0.9	**+0.17**	**+0.62**	**+1.00**	**+0.66**	**+0.17**	**−0.07**	**−0.09**	**−0.04**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.3 : 0.6	**+0.76**	**+1.00**	**+0.62**	**+0.13**	**−0.08**	**−0.08**	**−0.03**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.0 : 0.3	**+1.00**	**+0.76**	**+0.17**	**−0.10**	**−0.10**	**−0.03**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE XCIX: Statistical correlation matrix for the ΔR_{jj} distribution.

Analysis bin	0.6 : 1.0	1.0 : 1.4	1.4 : 1.8	1.8 : 2.2	2.2 : 2.5	2.5 : 2.8	2.8 : 3.0	3.0 : 3.2	3.2 : 3.5	3.5 : 3.9	3.9 : 4.5	4.5 : 6.0
4.5 : 6.0	+0.00	+0.00	+0.00	+0.00	+0.00	−0.03	−0.12	−0.11	+0.28	+0.81	+0.99	+1.00
3.9 : 4.5	+0.00	+0.00	+0.00	+0.00	+0.00	−0.04	−0.12	−0.06	+0.38	+0.89	+1.00	+0.99
3.5 : 3.9	+0.00	+0.00	+0.00	+0.00	−0.01	−0.07	−0.10	+0.13	+0.69	+1.00	+0.89	+0.81
3.2 : 3.5	+0.00	+0.00	+0.00	+0.00	−0.06	−0.10	+0.08	+0.61	+1.00	+0.69	+0.38	+0.28
3.0 : 3.2	+0.00	+0.00	+0.00	−0.05	−0.09	+0.05	+0.57	+1.00	+0.61	+0.13	−0.06	−0.11
2.8 : 3.0	+0.00	+0.00	−0.05	−0.07	+0.07	+0.55	+1.00	+0.57	+0.08	−0.10	−0.12	−0.12
2.5 : 2.8	+0.00	−0.04	−0.06	+0.10	+0.57	+1.00	+0.55	+0.05	−0.10	−0.07	−0.04	−0.03
2.2 : 2.5	−0.05	−0.06	+0.12	+0.60	+1.00	+0.57	+0.07	−0.09	−0.06	−0.01	+0.00	+0.00
1.8 : 2.2	−0.10	+0.09	+0.60	+1.00	+0.60	+0.10	−0.07	−0.05	+0.00	+0.00	+0.00	+0.00
1.4 : 1.8	+0.02	+0.55	+1.00	+0.60	+0.12	−0.06	−0.05	+0.00	+0.00	+0.00	+0.00	+0.00
1.0 : 1.4	+0.58	+1.00	+0.55	+0.09	−0.06	−0.04	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.6 : 1.0	+1.00	+0.58	+0.02	−0.10	−0.05	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE C: Statistical correlation matrix for the Δy_{13} distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	+0.00	+0.00	−0.03	−0.12	−0.08	+0.39	+0.83	+0.97	+1.00	+1.00
4.0 : 5.0	+0.00	+0.00	−0.03	−0.12	−0.06	+0.43	+0.86	+0.98	+1.00	+1.00
3.2 : 4.0	+0.00	+0.00	−0.04	−0.13	+0.00	+0.54	+0.93	+1.00	+0.98	+0.97
2.6 : 3.2	+0.00	+0.00	−0.07	−0.11	+0.17	+0.78	+1.00	+0.93	+0.86	+0.83
2.1 : 2.6	+0.00	−0.03	−0.09	+0.03	+0.59	+1.00	+0.78	+0.54	+0.43	+0.39
1.6 : 2.1	−0.01	−0.07	+0.00	+0.49	+1.00	+0.59	+0.17	+0.00	−0.06	−0.08
1.2 : 1.6	−0.07	−0.02	+0.46	+1.00	+0.49	+0.03	−0.11	−0.13	−0.12	−0.12
0.8 : 1.2	−0.10	+0.38	+1.00	+0.46	+0.00	−0.09	−0.07	−0.04	−0.03	−0.03
0.4 : 0.8	+0.27	+1.00	+0.38	−0.02	−0.07	−0.03	+0.00	+0.00	+0.00	+0.00
0.0 : 0.4	+1.00	+0.27	−0.10	−0.07	−0.01	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CI: Statistical correlation matrix for the Δy_{23} distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	+0.00	+0.01	−0.02	−0.13	−0.12	+0.32	+0.82	+0.98	+1.00	+1.00
4.0 : 5.0	+0.00	+0.01	−0.02	−0.13	−0.10	+0.36	+0.85	+0.99	+1.00	+1.00
3.2 : 4.0	+0.00	+0.00	−0.03	−0.13	−0.05	+0.47	+0.92	+1.00	+0.99	+0.98
2.6 : 3.2	+0.00	+0.00	−0.06	−0.10	+0.13	+0.73	+1.00	+0.92	+0.85	+0.82
2.1 : 2.6	+0.00	−0.03	−0.08	+0.06	+0.59	+1.00	+0.73	+0.47	+0.36	+0.32
1.6 : 2.1	−0.01	−0.07	+0.03	+0.53	+1.00	+0.59	+0.13	−0.05	−0.10	−0.12
1.2 : 1.6	−0.07	−0.03	+0.46	+1.00	+0.53	+0.06	−0.10	−0.13	−0.13	−0.13
0.8 : 1.2	−0.10	+0.35	+1.00	+0.46	+0.03	−0.08	−0.06	−0.03	−0.02	−0.02
0.4 : 0.8	+0.29	+1.00	+0.35	−0.03	−0.07	−0.03	+0.00	+0.00	+0.01	+0.01
0.0 : 0.4	+1.00	+0.29	−0.10	−0.07	−0.01	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CII: Statistical correlation matrix for the W boson p_T [one-jet] distribution.

Analysis bin	0.0 : 10.0	10.0 : 20.0	20.0 : 30.0	30.0 : 40.0	40.0 : 50.0	50.0 : 65.0	65.0 : 80.0	80.0 : 100.0	100.0 : 135.0	135.0 : 200.0	200.0 : 300.0
200.0 : 300.0	+0.00	+0.00	+0.00	+0.00	−0.02	+0.05	−0.01	−0.22	+0.13	+0.88	+1.00
135.0 : 200.0	+0.00	+0.00	+0.00	−0.02	+0.00	+0.06	−0.09	−0.19	+0.42	+1.00	+0.88
100.0 : 135.0	+0.00	+0.00	+0.00	−0.02	+0.08	−0.03	−0.26	+0.33	+1.00	+0.42	+0.13
80.0 : 100.0	+0.02	+0.00	−0.05	+0.09	+0.04	−0.34	+0.30	+1.00	+0.33	−0.19	−0.22
65.0 : 80.0	+0.00	−0.05	+0.03	+0.13	−0.39	+0.08	+1.00	+0.30	−0.26	−0.09	−0.01
50.0 : 65.0	−0.08	+0.02	+0.21	−0.41	−0.03	+1.00	+0.08	−0.34	−0.03	+0.06	+0.05
40.0 : 50.0	+0.13	+0.20	−0.35	−0.07	+1.00	−0.03	−0.39	+0.04	+0.08	+0.00	−0.02
30.0 : 40.0	+0.14	−0.27	−0.33	+1.00	−0.07	−0.41	+0.13	+0.09	−0.02	−0.02	+0.00
20.0 : 30.0	−0.57	−0.22	+1.00	−0.33	−0.35	+0.21	+0.03	−0.05	+0.00	+0.00	+0.00
10.0 : 20.0	+0.61	+1.00	−0.22	−0.27	+0.20	+0.02	−0.05	+0.00	+0.00	+0.00	+0.00
0.0 : 10.0	+1.00	+0.61	−0.57	+0.14	+0.13	−0.08	+0.00	+0.02	+0.00	+0.00	+0.00

TABLE CIII: Statistical correlation matrix for the W boson p_T [two-jet] distribution.

Analysis bin	0.0 : 15.0	15.0 : 25.0	25.0 : 35.0	35.0 : 45.0	45.0 : 55.0	55.0 : 65.0	65.0 : 80.0	80.0 : 105.0	105.0 : 140.0	140.0 : 190.0	190.0 : 250.0
190.0 : 250.0	+0.00	+0.00	+0.00	+0.00	−0.01	+0.03	+0.04	−0.14	−0.02	+0.79	+1.00
140.0 : 190.0	+0.00	+0.00	+0.00	−0.02	+0.00	+0.06	−0.03	−0.18	+0.34	+1.00	+0.79
105.0 : 140.0	+0.00	+0.00	−0.03	+0.00	+0.09	+0.00	−0.27	+0.17	+1.00	+0.34	−0.02
80.0 : 105.0	+0.01	−0.04	−0.01	+0.15	−0.04	−0.40	+0.11	+1.00	+0.17	−0.18	−0.14
65.0 : 80.0	−0.05	+0.02	+0.19	−0.13	−0.47	+0.29	+1.00	+0.11	−0.27	−0.03	+0.04
55.0 : 65.0	−0.03	+0.20	−0.09	−0.49	+0.29	+1.00	+0.29	−0.40	+0.00	+0.06	+0.03
45.0 : 55.0	+0.16	−0.07	−0.49	+0.20	+1.00	+0.29	−0.47	−0.04	+0.09	+0.00	−0.01
35.0 : 45.0	+0.08	−0.50	+0.12	+1.00	+0.20	−0.49	−0.13	+0.15	+0.00	−0.02	+0.00
25.0 : 35.0	−0.49	+0.24	+1.00	+0.12	−0.49	−0.09	+0.19	−0.01	−0.03	+0.00	+0.00
15.0 : 25.0	−0.11	+1.00	+0.24	−0.50	−0.07	+0.20	+0.02	−0.04	+0.00	+0.00	+0.00
0.0 : 15.0	+1.00	−0.11	−0.49	+0.08	+0.16	−0.03	−0.05	+0.01	+0.00	+0.00	+0.00

TABLE CIV: Statistical correlation matrix for the W boson p_T [three-jet] distribution.

Analysis bin	0.0 : 15.0	15.0 : 30.0	30.0 : 45.0	45.0 : 60.0	60.0 : 75.0	75.0 : 90.0	90.0 : 115.0	115.0 : 150.0	150.0 : 250.0
150.0 : 250.0	+0.03	+0.03	+0.00	−0.12	−0.18	−0.02	+0.47	+0.92	+1.00
115.0 : 150.0	+0.04	+0.03	−0.06	−0.15	−0.10	+0.22	+0.74	+1.00	+0.92
90.0 : 115.0	+0.03	−0.03	−0.15	−0.08	+0.27	+0.74	+1.00	+0.74	+0.47
75.0 : 90.0	−0.08	−0.15	−0.13	+0.26	+0.77	+1.00	+0.74	+0.22	−0.02
60.0 : 75.0	−0.25	−0.23	+0.16	+0.74	+1.00	+0.77	+0.27	−0.10	−0.18
45.0 : 60.0	−0.30	−0.08	+0.67	+1.00	+0.74	+0.26	−0.08	−0.15	−0.12
30.0 : 45.0	+0.15	+0.52	+1.00	+0.67	+0.16	−0.13	−0.15	−0.06	+0.00
15.0 : 30.0	+0.90	+1.00	+0.52	−0.08	−0.23	−0.15	−0.03	+0.03	+0.03
0.0 : 15.0	+1.00	+0.90	+0.15	−0.30	−0.25	−0.08	+0.03	+0.04	+0.03

TABLE CV: Statistical correlation matrix for the W boson p_T [four-jet] distribution.

Analysis bin	0.0 : 20.0	20.0 : 35.0	35.0 : 50.0	50.0 : 70.0	70.0 : 100.0	100.0 : 135.0	135.0 : 200.0
135.0 : 200.0	−0.11	−0.15	−0.13	+0.12	+0.58	+0.94	+1.00
100.0 : 135.0	−0.16	−0.16	−0.01	+0.35	+0.80	+1.00	+0.94
70.0 : 100.0	−0.20	−0.08	+0.33	+0.79	+1.00	+0.80	+0.58
50.0 : 70.0	+0.00	+0.25	+0.77	+1.00	+0.79	+0.35	+0.12
35.0 : 50.0	+0.52	+0.76	+1.00	+0.77	+0.33	−0.01	−0.13
20.0 : 35.0	+0.94	+1.00	+0.76	+0.25	−0.08	−0.16	−0.15
0.0 : 20.0	+1.00	+0.94	+0.52	+0.00	−0.20	−0.16	−0.11

TABLE CVI: Statistical correlation matrix for the dijet p_T [two-jet] distribution.

Analysis bin	0.0 : 10.0	10.0 : 20.0	20.0 : 30.0	30.0 : 40.0	40.0 : 50.0	50.0 : 65.0	65.0 : 80.0	80.0 : 100.0	100.0 : 120.0	120.0 : 145.0	145.0 : 175.0	175.0 : 210.0	210.0 : 260.0	260.0 : 350.0
260.0 : 350.0	+0.02	+0.02	+0.01	−0.03	−0.11	−0.15	−0.08	+0.18	+0.52	+0.79	+0.93	+0.98	+1.00	+1.00
210.0 : 260.0	+0.02	+0.02	+0.00	−0.04	−0.11	−0.15	−0.06	+0.21	+0.56	+0.82	+0.95	+0.99	+1.00	+1.00
175.0 : 210.0	+0.03	+0.02	+0.00	−0.06	−0.13	−0.15	−0.02	+0.29	+0.64	+0.88	+0.98	+1.00	+0.99	+0.98
145.0 : 175.0	+0.03	+0.02	−0.01	−0.08	−0.15	−0.13	+0.07	+0.42	+0.77	+0.95	+1.00	+0.98	+0.95	+0.93
120.0 : 145.0	+0.03	+0.01	−0.04	−0.12	−0.16	−0.06	+0.24	+0.63	+0.92	+1.00	+0.95	+0.88	+0.82	+0.79
100.0 : 120.0	+0.01	−0.01	−0.09	−0.16	−0.12	+0.12	+0.53	+0.88	+1.00	+0.92	+0.77	+0.64	+0.56	+0.52
80.0 : 100.0	−0.03	−0.07	−0.14	−0.14	+0.04	+0.43	+0.84	+1.00	+0.88	+0.63	+0.42	+0.29	+0.21	+0.18
65.0 : 80.0	−0.12	−0.15	−0.14	+0.04	+0.40	+0.81	+1.00	+0.84	+0.53	+0.24	+0.07	−0.02	−0.06	−0.08
50.0 : 65.0	−0.20	−0.17	+0.02	+0.41	+0.82	+1.00	+0.81	+0.43	+0.12	−0.06	−0.13	−0.15	−0.15	−0.15
40.0 : 50.0	−0.15	−0.02	+0.37	+0.82	+1.00	+0.82	+0.40	+0.04	−0.12	−0.16	−0.15	−0.13	−0.11	−0.11
30.0 : 40.0	+0.16	+0.36	+0.78	+1.00	+0.82	+0.41	+0.04	−0.14	−0.16	−0.12	−0.08	−0.06	−0.04	−0.03
20.0 : 30.0	+0.69	+0.84	+1.00	+0.78	+0.37	+0.02	−0.14	−0.14	−0.09	−0.04	−0.01	+0.00	+0.00	+0.01
10.0 : 20.0	+0.97	+1.00	+0.84	+0.36	−0.02	−0.17	−0.15	−0.07	−0.01	+0.01	+0.02	+0.02	+0.02	+0.02
0.0 : 10.0	+1.00	+0.97	+0.69	+0.16	−0.15	−0.20	−0.12	−0.03	+0.01	+0.03	+0.03	+0.03	+0.02	+0.02

TABLE CVII: Statistical correlation matrix for the dijet p_T [three-jet] distribution.

Analysis bin	0.0 : 15.0	15.0 : 30.0	30.0 : 45.0	45.0 : 65.0	65.0 : 85.0	85.0 : 110.0	110.0 : 140.0	140.0 : 175.0	175.0 : 210.0	210.0 : 280.0
210.0 : 280.0	+0.00	+0.08	+0.24	+0.49	+0.74	+0.90	+0.97	+0.99	+1.00	+1.00
175.0 : 210.0	+0.03	+0.11	+0.27	+0.52	+0.76	+0.92	+0.98	+1.00	+1.00	+1.00
140.0 : 175.0	+0.09	+0.17	+0.33	+0.58	+0.81	+0.94	+0.99	+1.00	+1.00	+0.99
110.0 : 140.0	+0.21	+0.28	+0.44	+0.67	+0.88	+0.98	+1.00	+0.99	+0.98	+0.97
85.0 : 110.0	+0.39	+0.46	+0.61	+0.81	+0.96	+1.00	+0.98	+0.94	+0.92	+0.90
65.0 : 85.0	+0.63	+0.69	+0.81	+0.94	+1.00	+0.96	+0.88	+0.81	+0.76	+0.74
45.0 : 65.0	+0.85	+0.89	+0.96	+1.00	+0.94	+0.81	+0.67	+0.58	+0.52	+0.49
30.0 : 45.0	+0.96	+0.98	+1.00	+0.96	+0.81	+0.61	+0.44	+0.33	+0.27	+0.24
15.0 : 30.0	+1.00	+1.00	+0.98	+0.89	+0.69	+0.46	+0.28	+0.17	+0.11	+0.08
0.0 : 15.0	+1.00	+1.00	+0.96	+0.85	+0.63	+0.39	+0.21	+0.09	+0.03	+0.00

TABLE CVIII: Statistical correlation matrix for the dijet invariant mass [two-jet] distribution.

Analysis bin	20.0 : 30.0	30.0 : 40.0	40.0 : 50.0	50.0 : 60.0	60.0 : 80.0	80.0 : 100.0	100.0 : 120.0	120.0 : 145.0	145.0 : 175.0	175.0 : 210.0	210.0 : 250.0	250.0 : 300.0	300.0 : 375.0
300.0 : 375.0	+0.00	+0.00	+0.00	+0.02	+0.02	−0.05	−0.15	−0.12	+0.13	+0.56	+0.88	+0.99	+1.00
250.0 : 300.0	+0.00	+0.00	+0.01	+0.03	+0.01	−0.07	−0.15	−0.08	+0.23	+0.67	+0.94	+1.00	+0.99
210.0 : 250.0	+0.00	+0.00	+0.02	+0.03	−0.01	−0.11	−0.13	+0.07	+0.47	+0.87	+1.00	+0.94	+0.88
175.0 : 210.0	+0.00	+0.01	+0.02	+0.00	−0.07	−0.14	+0.00	+0.39	+0.82	+1.00	+0.87	+0.67	+0.56
145.0 : 175.0	+0.02	+0.02	+0.01	−0.05	−0.14	−0.06	+0.34	+0.80	+1.00	+0.82	+0.47	+0.23	+0.13
120.0 : 145.0	+0.04	+0.02	−0.05	−0.15	−0.15	+0.24	+0.77	+1.00	+0.80	+0.39	+0.07	−0.08	−0.12
100.0 : 120.0	+0.04	−0.02	−0.15	−0.21	+0.07	+0.72	+1.00	+0.77	+0.34	+0.00	−0.13	−0.15	−0.15
80.0 : 100.0	−0.04	−0.12	−0.18	+0.03	+0.59	+1.00	+0.72	+0.24	−0.06	−0.14	−0.11	−0.07	−0.05
60.0 : 80.0	−0.22	−0.16	+0.16	+0.66	+1.00	+0.59	+0.07	−0.15	−0.14	−0.07	−0.01	+0.01	+0.02
50.0 : 60.0	−0.20	+0.11	+0.74	+1.00	+0.66	+0.03	−0.21	−0.15	−0.05	+0.00	+0.03	+0.03	+0.02
40.0 : 50.0	+0.28	+0.66	+1.00	+0.74	+0.16	−0.18	−0.15	−0.05	+0.01	+0.02	+0.02	+0.01	+0.00
30.0 : 40.0	+0.89	+1.00	+0.66	+0.11	−0.16	−0.12	−0.02	+0.02	+0.02	+0.01	+0.00	+0.00	+0.00
20.0 : 30.0	+1.00	+0.89	+0.28	−0.20	−0.22	−0.04	+0.04	+0.04	+0.02	+0.00	+0.00	+0.00	+0.00

TABLE CIX: Statistical correlation matrix for the dijet invariant mass [three-jet] distribution.

Analysis bin	30.0 : 45.0	45.0 : 65.0	65.0 : 85.0	85.0 : 110.0	110.0 : 140.0	140.0 : 175.0	175.0 : 210.0	210.0 : 260.0	260.0 : 330.0
260.0 : 330.0	−0.16	−0.18	−0.15	+0.02	+0.34	+0.70	+0.92	+0.99	+1.00
210.0 : 260.0	−0.18	−0.18	−0.13	+0.09	+0.43	+0.78	+0.96	+1.00	+0.99
175.0 : 210.0	−0.22	−0.18	−0.04	+0.26	+0.63	+0.91	+1.00	+0.96	+0.92
140.0 : 175.0	−0.22	−0.11	+0.16	+0.55	+0.88	+1.00	+0.91	+0.78	+0.70
110.0 : 140.0	−0.10	+0.10	+0.48	+0.86	+1.00	+0.88	+0.63	+0.43	+0.34
85.0 : 110.0	+0.24	+0.48	+0.83	+1.00	+0.86	+0.55	+0.26	+0.09	+0.02
65.0 : 85.0	+0.70	+0.87	+1.00	+0.83	+0.48	+0.16	−0.04	−0.13	−0.15
45.0 : 65.0	+0.95	+1.00	+0.87	+0.48	+0.10	−0.11	−0.18	−0.18	−0.18
30.0 : 45.0	+1.00	+0.95	+0.70	+0.24	−0.10	−0.22	−0.22	−0.18	−0.16

TABLE CX: Statistical correlation matrix for the H_T [one-jet] distribution.

Analysis bin	100.0 : 120.0	120.0 : 140.0	140.0 : 170.0	170.0 : 200.0	200.0 : 245.0	245.0 : 300.0	300.0 : 360.0	360.0 : 470.0
360.0 : 470.0	+0.00	−0.01	+0.03	+0.00	−0.18	+0.10	+0.83	+1.00
300.0 : 360.0	+0.00	+0.00	+0.05	−0.10	−0.13	+0.51	+1.00	+0.83
245.0 : 300.0	−0.02	+0.03	+0.00	−0.24	+0.34	+1.00	+0.51	+0.10
200.0 : 245.0	+0.00	+0.07	−0.25	+0.19	+1.00	+0.34	−0.13	−0.18
170.0 : 200.0	+0.09	−0.18	−0.02	+1.00	+0.19	−0.24	−0.10	+0.00
140.0 : 170.0	+0.01	−0.28	+1.00	−0.02	−0.25	+0.00	+0.05	+0.03
120.0 : 140.0	−0.47	+1.00	−0.28	−0.18	+0.07	+0.03	+0.00	−0.01
100.0 : 120.0	+1.00	−0.47	+0.01	+0.09	+0.00	−0.02	+0.00	+0.00

TABLE CXI: Statistical correlation matrix for the H_T [two-jet] distribution.

Analysis bin	120.0 : 135.0	135.0 : 155.0	155.0 : 185.0	185.0 : 230.0	230.0 : 280.0	280.0 : 340.0	340.0 : 390.0	390.0 : 460.0
390.0 : 460.0	+0.03	+0.03	−0.07	−0.15	+0.13	+0.70	+0.97	+1.00
340.0 : 390.0	+0.04	+0.02	−0.10	−0.12	+0.29	+0.84	+1.00	+0.97
280.0 : 340.0	+0.05	−0.03	−0.15	+0.05	+0.68	+1.00	+0.84	+0.70
230.0 : 280.0	−0.03	−0.14	−0.07	+0.55	+1.00	+0.68	+0.29	+0.13
185.0 : 230.0	−0.28	−0.19	+0.46	+1.00	+0.55	+0.05	−0.12	−0.15
155.0 : 185.0	−0.28	+0.28	+1.00	+0.46	−0.07	−0.15	−0.10	−0.07
135.0 : 155.0	+0.75	+1.00	+0.28	−0.19	−0.14	−0.03	+0.02	+0.03
120.0 : 135.0	+1.00	+0.75	−0.28	−0.28	−0.03	+0.05	+0.04	+0.03

TABLE CXII: Statistical correlation matrix for the H_T [three-jet] distribution.

Analysis bin	140.0 : 165.0	165.0 : 200.0	200.0 : 240.0	240.0 : 290.0	290.0 : 340.0	340.0 : 390.0	390.0 : 450.0
390.0 : 450.0	−0.16	−0.18	−0.12	+0.25	+0.74	+0.97	+1.00
340.0 : 390.0	−0.23	−0.22	−0.05	+0.42	+0.87	+1.00	+0.97
290.0 : 340.0	−0.35	−0.24	+0.20	+0.77	+1.00	+0.87	+0.74
240.0 : 290.0	−0.25	+0.00	+0.65	+1.00	+0.77	+0.42	+0.25
200.0 : 240.0	+0.40	+0.66	+1.00	+0.65	+0.20	−0.05	−0.12
165.0 : 200.0	+0.95	+1.00	+0.66	+0.00	−0.24	−0.22	−0.18
140.0 : 165.0	+1.00	+0.95	+0.40	−0.25	−0.35	−0.23	−0.16

TABLE CXIII: Statistical correlation matrix for the H_T [four-jet] distribution.

Analysis bin	160.0 : 200.0	200.0 : 250.0	250.0 : 310.0	310.0 : 370.0	370.0 : 450.0
370.0 : 450.0	−0.15	−0.17	+0.00	+0.66	+1.00
310.0 : 370.0	−0.31	−0.14	+0.54	+1.00	+0.66
250.0 : 310.0	+0.08	+0.42	+1.00	+0.54	+0.00
200.0 : 250.0	+0.90	+1.00	+0.42	−0.14	−0.17
160.0 : 200.0	+1.00	+0.90	+0.08	−0.31	−0.15

APPENDIX C: NORMALIZED INVERSE COVARIANCE MATRICES FROM UNFOLDING

To appear as an Electronic Physics Auxiliary Publication (EPAPS)

The inverse of the statistical covariance matrix can be a more directly useful quantity for fitting models to the unfolded data, and so we provide them in this appendix. The values are normalized to 1.0 along the diagonal.

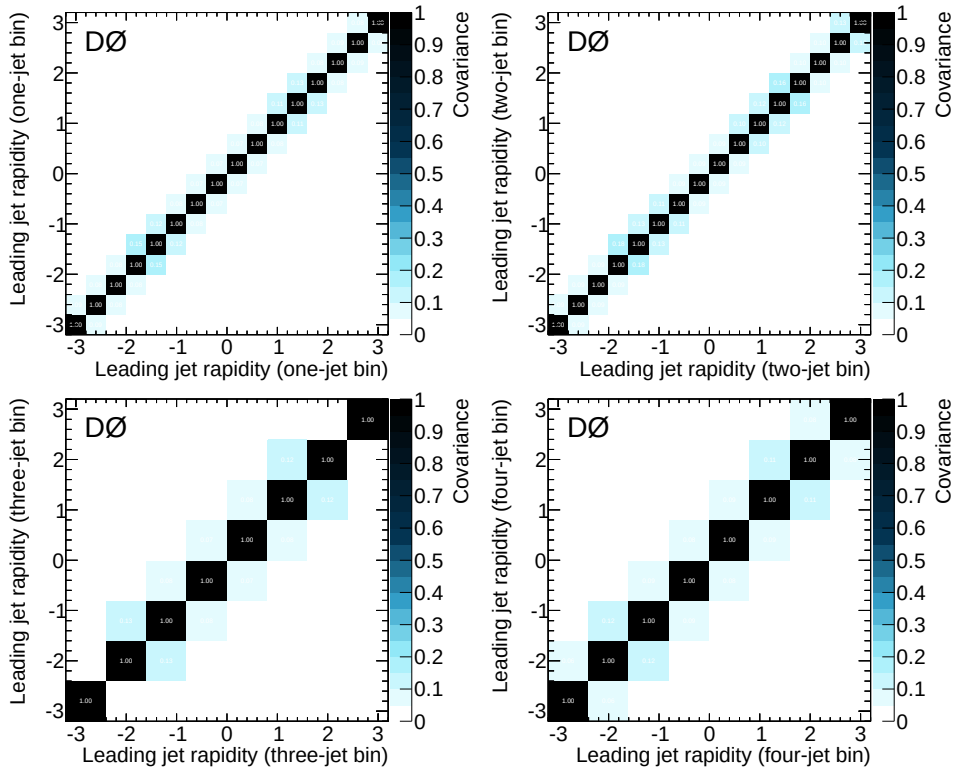

FIG. 38: Normalized inverse covariance matrices for unfolded jet rapidity distributions.

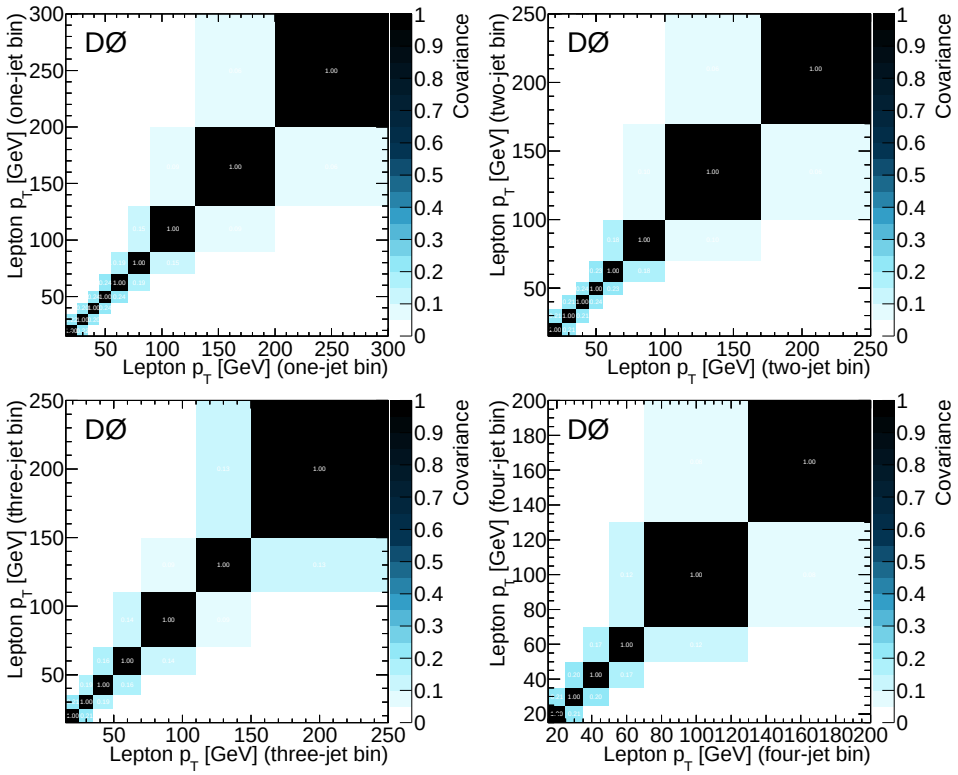

FIG. 39: Normalized inverse covariance matrices for unfolded lepton transverse momentum distributions.

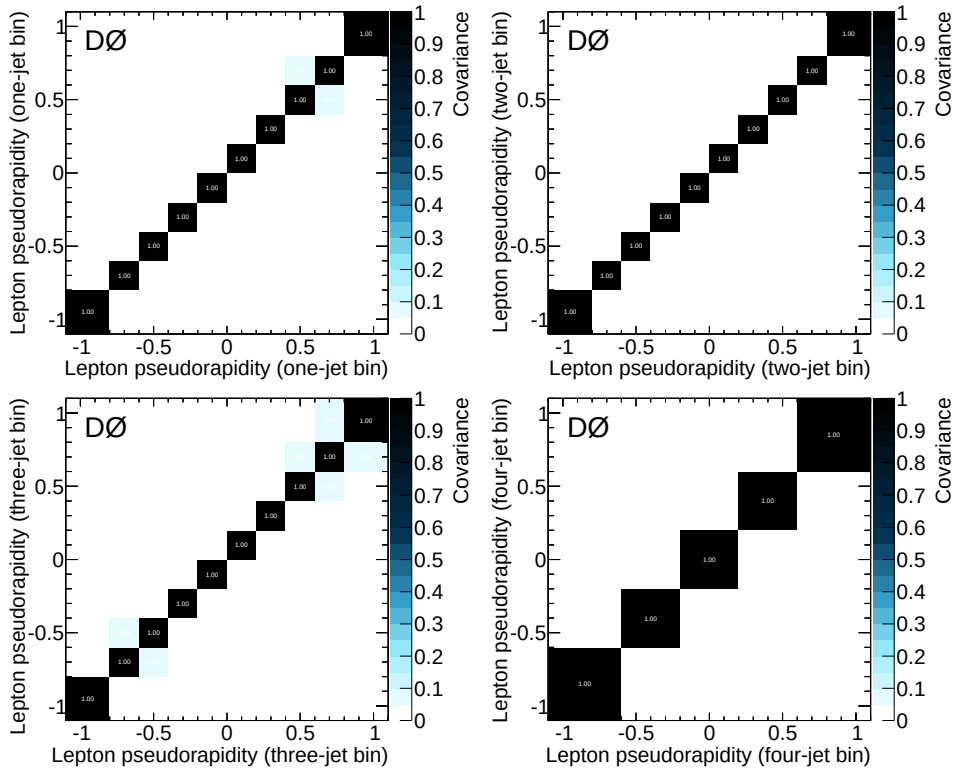

FIG. 40: Normalized inverse covariance matrices for unfolded lepton pseudorapidity distributions.

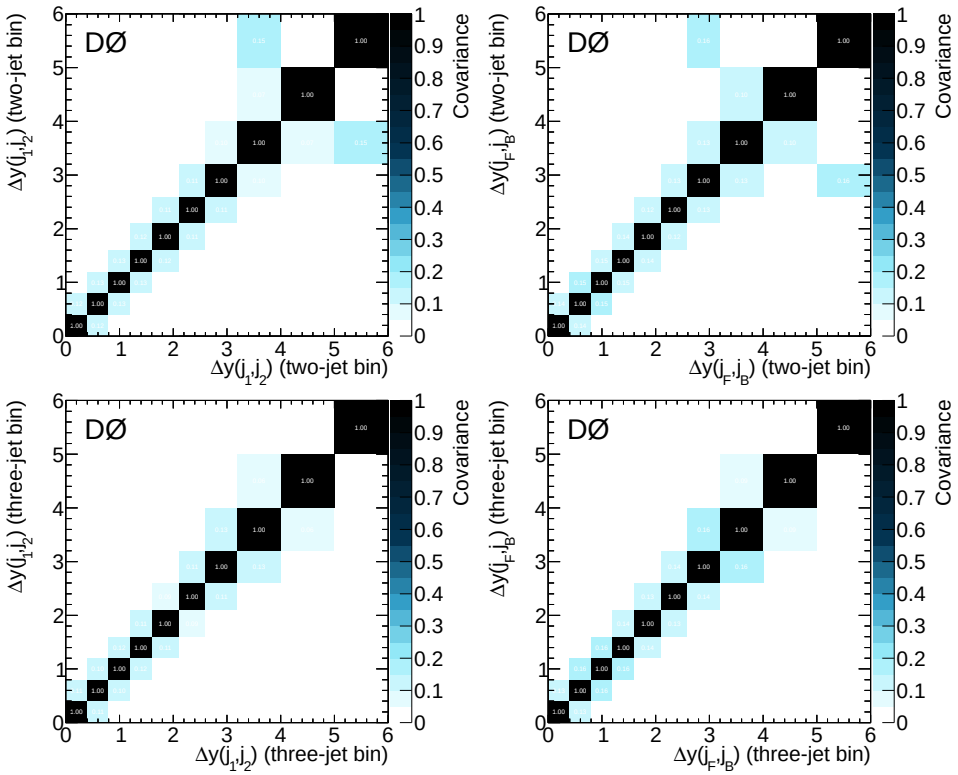

FIG. 41: Normalized inverse covariance matrices for unfolded dijet rapidity separations for the two highest p_T or two most rapidity-separated jets.

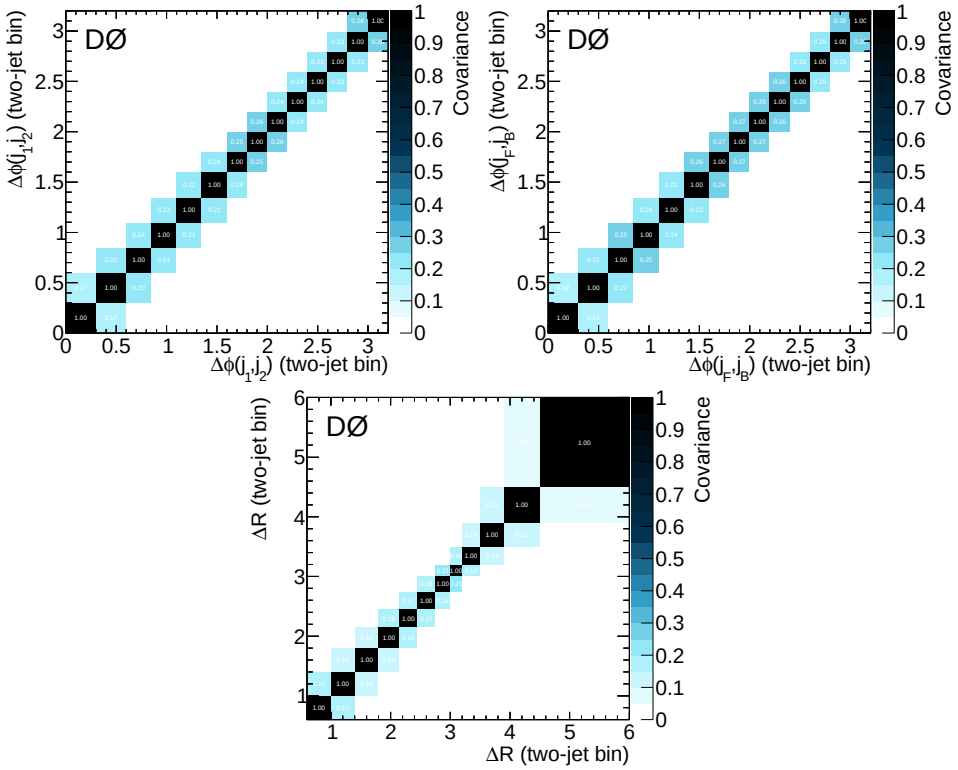

FIG. 42: Normalized inverse covariance matrices for unfolded azimuthal angle separation between the two highest p_T or two most rapidity-separated jets, and the dijet angular separation in $\eta - \phi$ space.

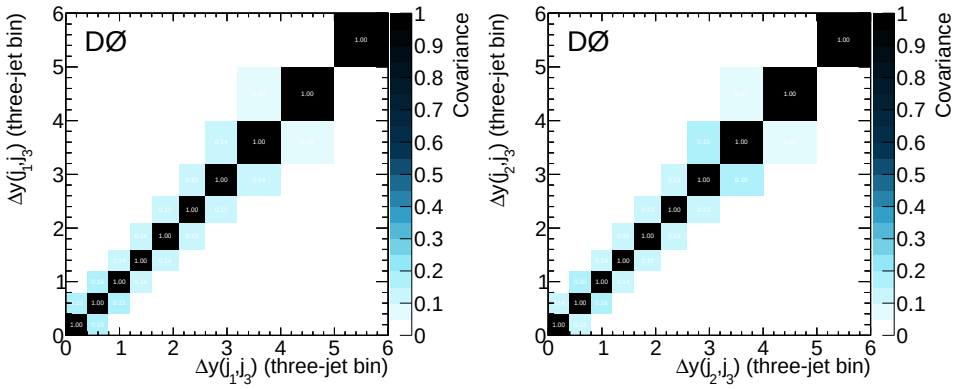

FIG. 43: Normalized inverse covariance matrices for unfolded dijet rapidity separation between the highest and second highest p_T jets and the second and third highest p_T jets in $W + 3$-jet events.

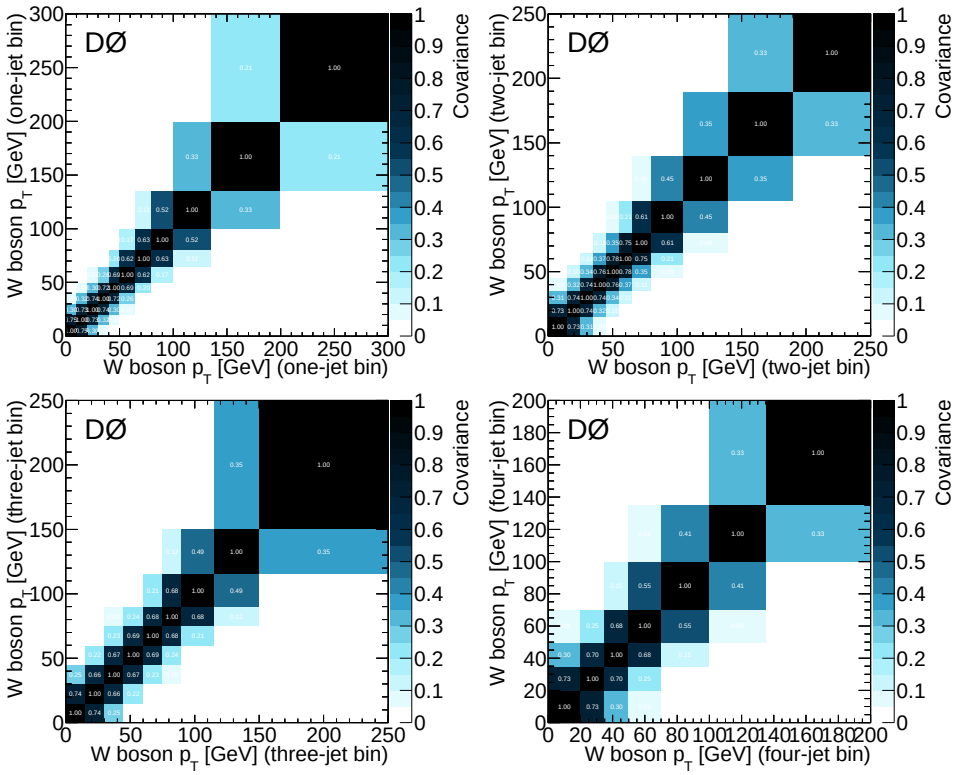

FIG. 44: Normalized inverse covariance matrices for unfolded W boson transverse momentum distributions.

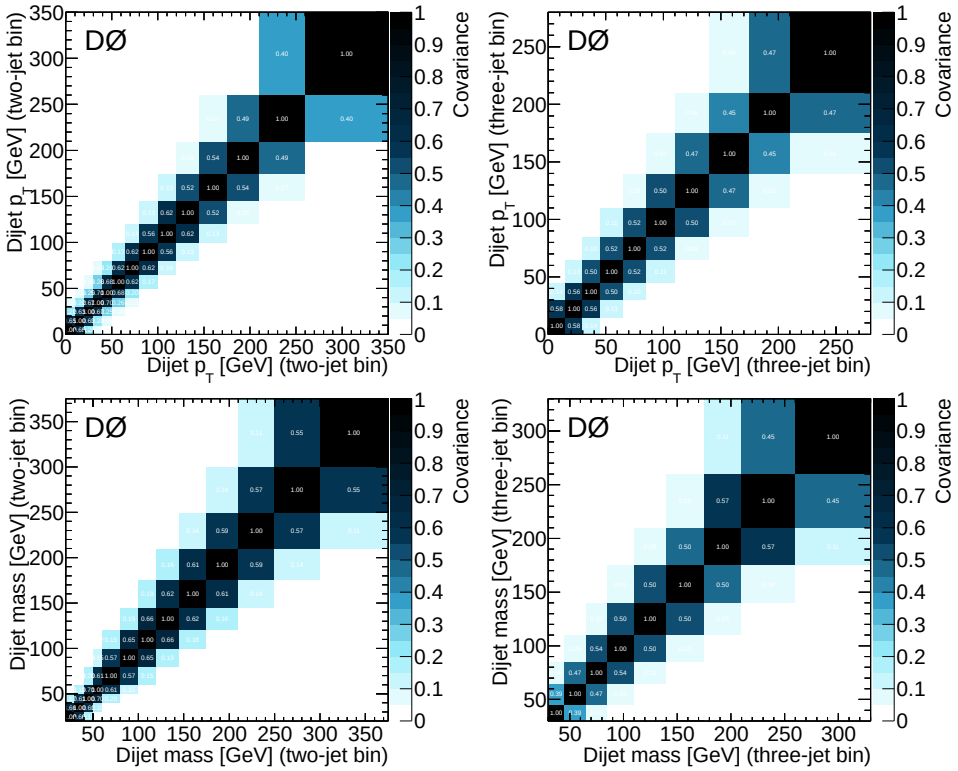

FIG. 45: Normalized inverse covariance matrices for unfolded dijet p_T and invariant mass distributions.

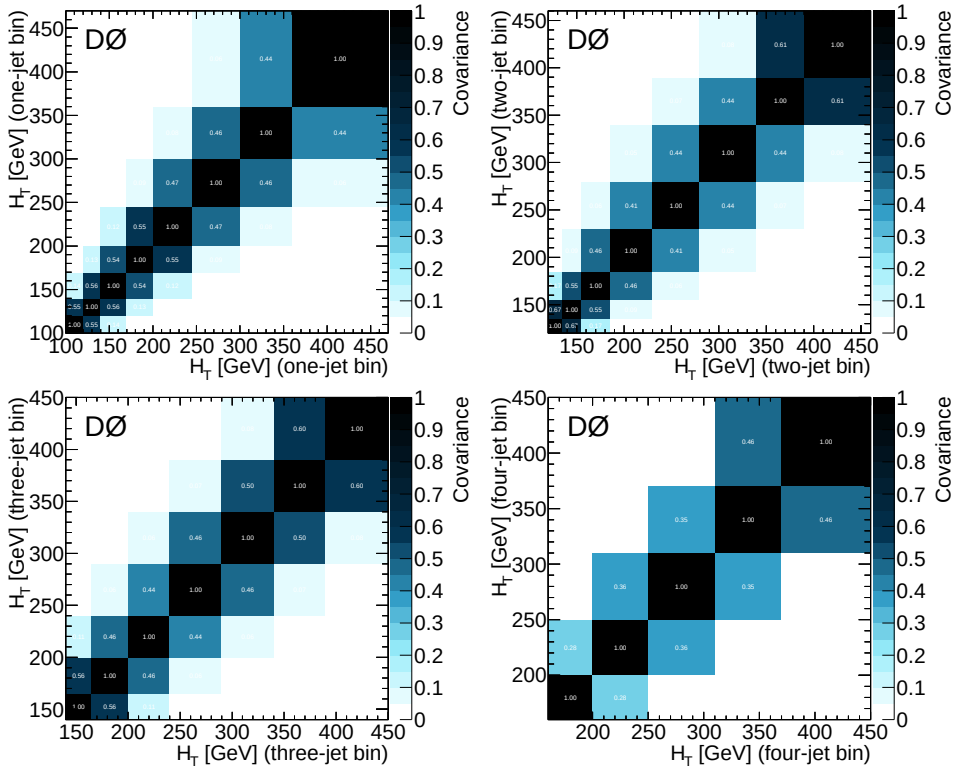

FIG. 46: Normalized inverse covariance matrices for unfolded H_T (scalar sum of the transverse energies of the W boson and all jets) distributions.

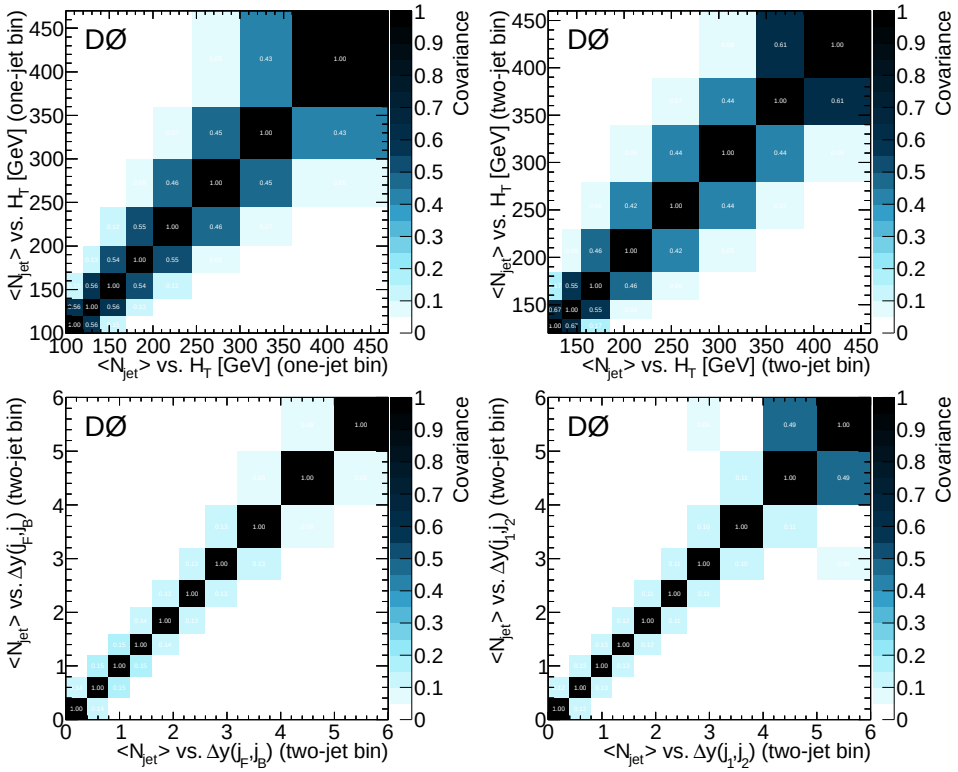

FIG. 47: Normalized inverse covariance matrices for the unfolded mean number of jets as a function of H_T in the inclusive one and two jet multiplicity bins and as a function of the dijet rapidity separations for the two highest p_T or two most rapidity-separated jets.

TABLE CXIV: Normalized inverse covariance matrix for the leading jet rapidity distribution.

Analysis bin	−3.2 : −2.8	−2.8 : −2.4	−2.4 : −2.0	−2.0 : −1.6	−1.6 : −1.2	−1.2 : −0.8	−0.8 : −0.4	−0.4 : 0.0	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.0	2.0 : 2.4	2.4 : 2.8	2.8 : 3.2
2.8 : 3.2	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.08**	**+1.00**
2.4 : 2.8	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.09**	**+1.00**	**+0.08**
2.0 : 2.4	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.08**	**+1.00**	**+0.09**	+0.00
1.6 : 2.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.13**	**+1.00**	**+0.08**	+0.00	+0.00
1.2 : 1.6	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.11**	**+1.00**	**+0.13**	+0.00	+0.00	+0.00
0.8 : 1.2	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.08**	**+1.00**	**+0.11**	+0.00	+0.00	+0.00	+0.00
0.4 : 0.8	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.07**	**+1.00**	**+0.08**	+0.00	+0.00	+0.00	+0.00	+0.00
0.0 : 0.4	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.07**	**+1.00**	**+0.07**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−0.4 : 0.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.07**	**+1.00**	**+0.07**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−0.8 : −0.4	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.08**	**+1.00**	**+0.07**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−1.2 : −0.8	+0.00	+0.00	+0.00	+0.00	**+0.12**	**+1.00**	**+0.08**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−1.6 : −1.2	+0.00	+0.00	+0.00	**+0.15**	**+1.00**	**+0.12**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−2.0 : −1.6	+0.00	+0.00	**+0.08**	**+1.00**	**+0.15**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−2.4 : −2.0	+0.00	**+0.08**	**+1.00**	**+0.08**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−2.8 : −2.4	**+0.09**	**+1.00**	**+0.08**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−3.2 : −2.8	**+1.00**	**+0.09**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXV: Normalized inverse covariance matrix for the second jet rapidity distribution.

Analysis bin	−3.2 : −2.8	−2.8 : −2.4	−2.4 : −2.0	−2.0 : −1.6	−1.6 : −1.2	−1.2 : −0.8	−0.8 : −0.4	−0.4 : 0.0	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.0	2.0 : 2.4	2.4 : 2.8	2.8 : 3.2
2.8 : 3.2	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.13**	**+1.00**
2.4 : 2.8	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.10**	**+1.00**	**+0.13**
2.0 : 2.4	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.10**	**+1.00**	**+0.10**	+0.00
1.6 : 2.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.02**	**+0.16**	**+1.00**	**+0.10**	+0.00	+0.00
1.2 : 1.6	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.01**	**+0.12**	**+1.00**	**+0.16**	+0.00	+0.00	+0.00
0.8 : 1.2	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.01**	**+0.10**	**+1.00**	**+0.12**	**+0.02**	+0.00	+0.00	+0.00
0.4 : 0.8	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.09**	**+1.00**	**+0.10**	**+0.01**	+0.00	+0.00	+0.00	+0.00
0.0 : 0.4	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.01**	**+0.09**	**+1.00**	**+0.09**	**+0.01**	+0.00	+0.00	+0.00	+0.00	+0.00
−0.4 : 0.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.09**	**+1.00**	**+0.09**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−0.8 : −0.4	+0.00	+0.00	+0.00	+0.00	**+0.02**	**+0.11**	**+1.00**	**+0.09**	**+0.01**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−1.2 : −0.8	+0.00	+0.00	+0.00	**+0.01**	**+0.13**	**+1.00**	**+0.11**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−1.6 : −1.2	+0.00	+0.00	**+0.01**	**+0.18**	**+1.00**	**+0.13**	**+0.02**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−2.0 : −1.6	+0.00	+0.00	**+0.09**	**+1.00**	**+0.18**	**+0.01**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−2.4 : −2.0	+0.00	**+0.09**	**+1.00**	**+0.09**	**+0.01**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−2.8 : −2.4	**+0.09**	**+1.00**	**+0.09**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−3.2 : −2.8	**+1.00**	**+0.09**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXVI: Normalized inverse covariance matrix for the third jet rapidity distribution.

Analysis bin	−3.2 : −2.4	−2.4 : −1.6	−1.6 : −0.8	−0.8 : 0.0	0.0 : 0.8	0.8 : 1.6	1.6 : 2.4	2.4 : 3.2
2.4 : 3.2	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.05	+1.00
1.6 : 2.4	+0.00	+0.00	+0.00	+0.00	+0.00	+0.12	+1.00	+0.05
0.8 : 1.6	+0.00	+0.00	+0.00	+0.00	+0.08	+1.00	+0.12	+0.00
0.0 : 0.8	+0.00	+0.00	+0.00	+0.07	+1.00	+0.08	+0.00	+0.00
−0.8 : 0.0	+0.00	+0.00	+0.08	+1.00	+0.07	+0.00	+0.00	+0.00
−1.6 : −0.8	+0.00	+0.13	+1.00	+0.08	+0.00	+0.00	+0.00	+0.00
−2.4 : −1.6	+0.03	+1.00	+0.13	+0.00	+0.00	+0.00	+0.00	+0.00
−3.2 : −2.4	+1.00	+0.03	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXVII: Normalized inverse covariance matrix for the fourth jet rapidity distribution.

Analysis bin	−3.2 : −2.4	−2.4 : −1.6	−1.6 : −0.8	−0.8 : 0.0	0.0 : 0.8	0.8 : 1.6	1.6 : 2.4	2.4 : 3.2
2.4 : 3.2	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.08	+1.00
1.6 : 2.4	+0.00	+0.00	+0.00	+0.00	+0.00	+0.11	+1.00	+0.08
0.8 : 1.6	+0.00	+0.00	+0.00	+0.00	+0.09	+1.00	+0.11	+0.00
0.0 : 0.8	+0.00	+0.00	+0.00	+0.08	+1.00	+0.09	+0.00	+0.00
−0.8 : 0.0	+0.00	+0.00	+0.09	+1.00	+0.08	+0.00	+0.00	+0.00
−1.6 : −0.8	+0.00	+0.12	+1.00	+0.09	+0.00	+0.00	+0.00	+0.00
−2.4 : −1.6	+0.06	+1.00	+0.12	+0.00	+0.00	+0.00	+0.00	+0.00
−3.2 : −2.4	+1.00	+0.06	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXVIII: Normalized inverse covariance matrix for the lepton p_T [one-jet] distribution.

Analysis bin	0.0 : 5.0	5.0 : 10.0	10.0 : 15.0	15.0 : 25.0	25.0 : 35.0	35.0 : 45.0	45.0 : 55.0	55.0 : 70.0	70.0 : 90.0	90.0 : 130.0	130.0 : 200.0	200.0 : 300.0
200.0 : 300.0	+0.40	−0.63	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.06	+1.00
130.0 : 200.0	−0.25	+0.12	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.09	+1.00	+0.06
90.0 : 130.0	−0.25	+0.26	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.15	+1.00	+0.09	+0.00
70.0 : 90.0	+0.45	−0.33	+0.00	+0.00	+0.00	+0.00	+0.01	+0.19	+1.00	+0.15	+0.00	+0.00
55.0 : 70.0	−0.22	+0.09	+0.00	+0.00	+0.00	+0.03	+0.24	+1.00	+0.19	+0.00	+0.00	+0.00
45.0 : 55.0	+0.11	−0.12	+0.00	+0.00	+0.02	+0.24	+1.00	+0.24	+0.01	+0.00	+0.00	+0.00
35.0 : 45.0	−0.01	−0.05	+0.02	+0.02	+0.20	+1.00	+0.24	+0.03	+0.00	+0.00	+0.00	+0.00
25.0 : 35.0	+0.04	−0.05	+0.19	+0.22	+1.00	+0.20	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00
15.0 : 25.0	+0.00	+0.45	+1.00	+1.00	+0.22	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
10.0 : 15.0	+0.00	+0.44	+1.00	+1.00	+0.19	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00	+0.02
5.0 : 10.0	−0.81	+1.00	+0.44	+0.45	−0.05	−0.05	−0.12	+0.09	−0.33	+0.26	+0.12	−0.63
0.0 : 5.0	+1.00	−0.81	+0.00	+0.00	+0.04	−0.01	+0.11	−0.22	+0.45	−0.25	−0.25	+0.40

TABLE CXIX: Normalized inverse covariance matrix for the lepton p_T [two-jet] distribution.

Analysis bin	0.0 : 5.0	5.0 : 10.0	10.0 : 15.0	15.0 : 25.0	25.0 : 35.0	35.0 : 45.0	45.0 : 55.0	55.0 : 70.0	70.0 : 100.0	100.0 : 170.0	170.0 : 250.0
170.0 : 250.0	−0.02	−0.41	+0.06	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.06	+1.00
100.0 : 170.0	−0.43	+0.43	−0.02	+0.00	+0.00	+0.00	+0.00	+0.00	+0.10	+1.00	+0.06
70.0 : 100.0	+0.42	−0.28	+0.00	+0.00	+0.00	+0.00	+0.02	+0.18	+1.00	+0.10	+0.00
55.0 : 70.0	−0.13	+0.11	+0.00	+0.00	+0.00	+0.03	+0.23	+1.00	+0.18	+0.00	+0.00
45.0 : 55.0	−0.07	+0.08	+0.00	+0.00	+0.02	+0.24	+1.00	+0.23	+0.02	+0.00	+0.00
35.0 : 45.0	+0.15	−0.06	+0.01	+0.02	+0.21	+1.00	+0.24	+0.03	+0.00	+0.00	+0.00
25.0 : 35.0	−0.10	+0.15	+0.16	+0.21	+1.00	+0.21	+0.02	+0.00	+0.00	+0.00	+0.00
15.0 : 25.0	+0.07	+0.51	+1.00	+1.00	+0.21	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00
10.0 : 15.0	+0.09	+0.47	+1.00	+1.00	+0.16	+0.01	+0.00	+0.00	+0.00	−0.02	+0.06
5.0 : 10.0	−0.69	+1.00	+0.47	+0.51	+0.15	−0.06	+0.08	+0.11	−0.28	+0.43	−0.41
0.0 : 5.0	+1.00	−0.69	+0.09	+0.07	−0.10	+0.15	−0.07	−0.13	+0.42	−0.43	−0.02

TABLE CXX: Normalized inverse covariance matrix for the lepton p_T [three-jet] distribution.

Analysis bin	0.0 : 5.0	5.0 : 10.0	10.0 : 15.0	15.0 : 25.0	25.0 : 35.0	35.0 : 50.0	50.0 : 70.0	70.0 : 110.0	110.0 : 150.0	150.0 : 250.0
150.0 : 250.0	−0.46	+0.46	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.13	+1.00
110.0 : 150.0	+0.63	−0.55	+0.00	+0.00	+0.00	+0.00	+0.00	+0.09	+1.00	+0.13
70.0 : 110.0	+0.19	−0.10	+0.00	+0.00	+0.00	+0.01	+0.14	+1.00	+0.09	+0.00
50.0 : 70.0	+0.33	−0.21	+0.00	+0.00	+0.01	+0.16	+1.00	+0.14	+0.00	+0.00
35.0 : 50.0	+0.32	−0.22	+0.00	+0.02	+0.19	+1.00	+0.16	+0.01	+0.00	+0.00
25.0 : 35.0	+0.35	−0.17	+0.17	+0.21	+1.00	+0.19	+0.01	+0.00	+0.00	+0.00
15.0 : 25.0	+0.22	+0.51	+1.00	+1.00	+0.21	+0.02	+0.00	+0.00	+0.00	+0.00
10.0 : 15.0	+0.21	+0.52	+1.00	+1.00	+0.17	+0.00	+0.00	+0.00	+0.00	+0.00
5.0 : 10.0	−0.71	+1.00	+0.52	+0.51	−0.17	−0.22	−0.21	−0.10	−0.55	+0.46
0.0 : 5.0	+1.00	−0.71	+0.21	+0.22	+0.35	+0.32	+0.33	+0.19	+0.63	−0.46

TABLE CXXI: Normalized inverse covariance matrix for the lepton p_T [four-jet] distribution.

Analysis bin	0.0 : 5.0	5.0 : 10.0	10.0 : 15.0	15.0 : 25.0	25.0 : 35.0	35.0 : 50.0	50.0 : 70.0	70.0 : 130.0	130.0 : 200.0
130.0 : 200.0	+0.39	−0.34	+0.00	+0.00	+0.00	+0.00	+0.00	+0.08	+1.00
70.0 : 130.0	+0.48	−0.42	+0.00	+0.00	+0.00	+0.00	+0.12	+1.00	+0.08
50.0 : 70.0	−0.22	+0.17	+0.00	+0.00	+0.01	+0.17	+1.00	+0.12	+0.00
35.0 : 50.0	−0.53	+0.45	+0.00	+0.03	+0.20	+1.00	+0.17	+0.00	+0.00
25.0 : 35.0	+0.05	+0.00	+0.12	+0.21	+1.00	+0.20	+0.01	+0.00	+0.00
15.0 : 25.0	+0.55	+0.68	+1.00	+1.00	+0.21	+0.03	+0.00	+0.00	+0.00
10.0 : 15.0	+0.56	+0.68	+1.00	+1.00	+0.12	+0.00	+0.00	+0.00	+0.00
5.0 : 10.0	−0.21	+1.00	+0.68	+0.68	+0.00	+0.45	+0.17	−0.42	−0.34
0.0 : 5.0	+1.00	−0.21	+0.56	+0.55	+0.05	−0.53	−0.22	+0.48	+0.39

TABLE CXXII: Normalized inverse covariance matrix for the lepton pseudorapidity [one-jet] distribution.

Analysis bin	−1.1 : −0.8	−0.8 : −0.6	−0.6 : −0.4	−0.4 : −0.2	−0.2 : 0.0	0.0 : 0.2	0.2 : 0.4	0.4 : 0.6	0.6 : 0.8	0.8 : 1.1
0.8 : 1.1	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.05	+1.00
0.6 : 0.8	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.05	+1.00	+0.05
0.4 : 0.6	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.05	+1.00	+0.05	+0.00
0.2 : 0.4	+0.00	+0.00	+0.00	+0.00	+0.00	+0.04	+1.00	+0.05	+0.00	+0.00
0.0 : 0.2	+0.00	+0.00	+0.00	+0.00	+0.04	+1.00	+0.04	+0.00	+0.00	+0.00
−0.2 : 0.0	+0.00	+0.00	+0.00	+0.04	+1.00	+0.04	+0.00	+0.00	+0.00	+0.00
−0.4 : −0.2	+0.00	+0.00	+0.04	+1.00	+0.04	+0.00	+0.00	+0.00	+0.00	+0.00
−0.6 : −0.4	+0.00	+0.05	+1.00	+0.04	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−0.8 : −0.6	+0.05	+1.00	+0.05	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−1.1 : −0.8	+1.00	+0.05	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXXIII: Normalized inverse covariance matrix for the lepton pseudorapidity [two-jet] distribution.

Analysis bin	−1.1 : −0.8	−0.8 : −0.6	−0.6 : −0.4	−0.4 : −0.2	−0.2 : 0.0	0.0 : 0.2	0.2 : 0.4	0.4 : 0.6	0.6 : 0.8	0.8 : 1.1
0.8 : 1.1	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.05	+1.00
0.6 : 0.8	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.05	+1.00	+0.05
0.4 : 0.6	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.04	+1.00	+0.05	+0.00
0.2 : 0.4	+0.00	+0.00	+0.00	+0.00	+0.00	+0.04	+1.00	+0.04	+0.00	+0.00
0.0 : 0.2	+0.00	+0.00	+0.00	+0.00	+0.04	+1.00	+0.04	+0.00	+0.00	+0.00
−0.2 : 0.0	+0.00	+0.00	+0.00	+0.04	+1.00	+0.04	+0.00	+0.00	+0.00	+0.00
−0.4 : −0.2	+0.00	+0.00	+0.04	+1.00	+0.04	+0.00	+0.00	+0.00	+0.00	+0.00
−0.6 : −0.4	+0.00	+0.05	+1.00	+0.04	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−0.8 : −0.6	+0.05	+1.00	+0.05	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−1.1 : −0.8	+1.00	+0.05	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXXIV: Normalized inverse covariance matrix for the lepton pseudorapidity [three-jet] distribution.

Analysis bin	−1.1 : −0.8	−0.8 : −0.6	−0.6 : −0.4	−0.4 : −0.2	−0.2 : 0.0	0.0 : 0.2	0.2 : 0.4	0.4 : 0.6	0.6 : 0.8	0.8 : 1.1
0.8 : 1.1	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.05	+1.00
0.6 : 0.8	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.05	+1.00	+0.05
0.4 : 0.6	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.04	+1.00	+0.05	+0.00
0.2 : 0.4	+0.00	+0.00	+0.00	+0.00	+0.00	+0.05	+1.00	+0.04	+0.00	+0.00
0.0 : 0.2	+0.00	+0.00	+0.00	+0.00	+0.04	+1.00	+0.05	+0.00	+0.00	+0.00
−0.2 : 0.0	+0.00	+0.00	+0.00	+0.04	+1.00	+0.04	+0.00	+0.00	+0.00	+0.00
−0.4 : −0.2	+0.00	+0.00	+0.05	+1.00	+0.04	+0.00	+0.00	+0.00	+0.00	+0.00
−0.6 : −0.4	+0.00	+0.05	+1.00	+0.05	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−0.8 : −0.6	+0.04	+1.00	+0.05	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
−1.1 : −0.8	+1.00	+0.04	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXXV: Normalized inverse covariance matrix for the lepton pseudorapidity [four-jet] distribution.

Analysis bin	−1.1 : −0.6	−0.6 : −0.2	−0.2 : 0.2	0.2 : 0.6	0.6 : 1.1
0.6 : 1.1	+0.00	+0.00	+0.00	+0.03	+1.00
0.2 : 0.6	+0.00	+0.00	+0.03	+1.00	+0.03
−0.2 : 0.2	+0.00	+0.02	+1.00	+0.03	+0.00
−0.6 : −0.2	+0.02	+1.00	+0.02	+0.00	+0.00
−1.1 : −0.6	+1.00	+0.02	+0.00	+0.00	+0.00

TABLE CXXVI: Normalized inverse covariance matrix for the Δy_{12} [two-jet] distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	+0.00	+0.00	+0.01	+0.00	+0.02	+0.00	−0.03	+0.15	−0.26	+1.00
4.0 : 5.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.01	+0.07	+1.00	−0.26
3.2 : 4.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.10	+1.00	+0.07	+0.15
2.6 : 3.2	+0.00	+0.00	+0.00	+0.00	+0.00	+0.11	+1.00	+0.10	+0.01	−0.03
2.1 : 2.6	+0.00	+0.00	+0.00	+0.00	+0.11	+1.00	+0.11	+0.00	+0.00	+0.00
1.6 : 2.1	+0.00	+0.00	+0.00	+0.12	+1.00	+0.11	+0.00	+0.00	+0.00	+0.02
1.2 : 1.6	+0.00	+0.00	+0.13	+1.00	+0.12	+0.00	+0.00	+0.00	+0.00	+0.00
0.8 : 1.2	+0.00	+0.13	+1.00	+0.13	+0.00	+0.00	+0.00	+0.00	+0.00	+0.01
0.4 : 0.8	+0.12	+1.00	+0.13	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.0 : 0.4	+1.00	+0.12	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXXVII: Normalized inverse covariance matrix for the Δy_{FB} [two-jet] distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	−0.03	−0.01	+0.00	−0.02	+0.02	−0.09	+0.16	−0.11	−0.04	+1.00
4.0 : 5.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.10	+1.00	−0.04
3.2 : 4.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.13	+1.00	+0.10	−0.11
2.6 : 3.2	+0.00	+0.00	+0.00	+0.00	+0.01	+0.13	+1.00	+0.13	+0.00	+0.16
2.1 : 2.6	+0.00	+0.00	+0.00	+0.01	+0.12	+1.00	+0.13	+0.00	+0.00	−0.09
1.6 : 2.1	+0.00	+0.00	+0.02	+0.14	+1.00	+0.12	+0.01	+0.00	+0.00	+0.02
1.2 : 1.6	+0.00	+0.02	+0.15	+1.00	+0.14	+0.01	+0.00	+0.00	+0.00	−0.02
0.8 : 1.2	+0.01	+0.15	+1.00	+0.15	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00
0.4 : 0.8	+0.14	+1.00	+0.15	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00	−0.01
0.0 : 0.4	+1.00	+0.14	+0.01	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	−0.03

TABLE CXXVIII: Normalized inverse covariance matrix for the Δy_{12} [three-jet] distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+1.00
4.0 : 5.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.06	+1.00	+0.00
3.2 : 4.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.13	+1.00	+0.06	+0.00
2.6 : 3.2	+0.00	+0.00	+0.00	+0.00	+0.00	+0.11	+1.00	+0.13	+0.00	+0.00
2.1 : 2.6	+0.00	+0.00	+0.00	+0.00	+0.09	+1.00	+0.11	+0.00	+0.00	+0.00
1.6 : 2.1	+0.00	+0.00	+0.02	+0.11	+1.00	+0.09	+0.00	+0.00	+0.00	+0.00
1.2 : 1.6	+0.00	+0.01	+0.12	+1.00	+0.11	+0.00	+0.00	+0.00	+0.00	+0.00
0.8 : 1.2	+0.01	+0.10	+1.00	+0.12	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00
0.4 : 0.8	+0.11	+1.00	+0.10	+0.01	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.0 : 0.4	+1.00	+0.11	+0.01	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXXIX: Normalized inverse covariance matrix for the Δy_{FB} [three-jet] distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+1.00
4.0 : 5.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.09	+1.00	+0.00
3.2 : 4.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.16	+1.00	+0.09	+0.00
2.6 : 3.2	+0.00	+0.00	+0.00	+0.00	+0.01	+0.14	+1.00	+0.16	+0.00	+0.00
2.1 : 2.6	+0.00	+0.00	+0.00	+0.01	+0.13	+1.00	+0.14	+0.00	+0.00	+0.00
1.6 : 2.1	+0.00	+0.00	+0.01	+0.14	+1.00	+0.13	+0.01	+0.00	+0.00	+0.00
1.2 : 1.6	+0.00	+0.02	+0.16	+1.00	+0.14	+0.01	+0.00	+0.00	+0.00	+0.00
0.8 : 1.2	+0.01	+0.16	+1.00	+0.16	+0.01	+0.00	+0.00	+0.00	+0.00	+0.00
0.4 : 0.8	+0.13	+1.00	+0.16	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.0 : 0.4	+1.00	+0.13	+0.01	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXXX: Normalized inverse covariance matrix for the $\Delta\phi_{12}$ distribution.

Analysis bin	0.0 : 0.3	0.3 : 0.6	0.6 : 0.9	0.9 : 1.1	1.1 : 1.4	1.4 : 1.6	1.6 : 1.8	1.8 : 2.0	2.0 : 2.2	2.2 : 2.4	2.4 : 2.6	2.6 : 2.8	2.8 : 3.0	3.0 : 3.2
3.0 : 3.2	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.03	+0.26	+1.00
2.8 : 3.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.03	+0.23	+1.00	+0.26
2.6 : 2.8	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.03	+0.23	+1.00	+0.23	+0.03
2.4 : 2.6	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.03	+0.24	+1.00	+0.23	+0.03	+0.00
2.2 : 2.4	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.03	+0.24	+1.00	+0.24	+0.03	+0.00	+0.00
2.0 : 2.2	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.03	+0.26	+1.00	+0.24	+0.03	+0.00	+0.00	+0.00
1.8 : 2.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.03	+0.25	+1.00	+0.26	+0.03	+0.00	+0.00	+0.00	+0.00
1.6 : 1.8	+0.00	+0.00	+0.00	+0.00	+0.02	+0.24	+1.00	+0.25	+0.03	+0.00	+0.00	+0.00	+0.00	+0.00
1.4 : 1.6	+0.00	+0.00	+0.00	+0.02	+0.21	+1.00	+0.24	+0.03	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
1.1 : 1.4	+0.00	+0.00	+0.02	+0.23	+1.00	+0.21	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.9 : 1.1	+0.00	+0.02	+0.24	+1.00	+0.23	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.6 : 0.9	+0.02	+0.20	+1.00	+0.24	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.3 : 0.6	+0.17	+1.00	+0.20	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.0 : 0.3	+1.00	+0.17	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXXXI: Normalized inverse covariance matrix for the $\Delta\phi_{FB}$ distribution.

Analysis bin	0.0 : 0.3	0.3 : 0.6	0.6 : 0.9	0.9 : 1.1	1.1 : 1.4	1.4 : 1.6	1.6 : 1.8	1.8 : 2.0	2.0 : 2.2	2.2 : 2.4	2.4 : 2.6	2.6 : 2.8	2.8 : 3.0	3.0 : 3.2
3.0 : 3.2	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.01**	**+0.02**	**+0.04**	**+0.28**	**+1.00**
2.8 : 3.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.01**	**+0.04**	**+0.25**	**+1.00**	**+0.28**
2.6 : 2.8	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.01**	**+0.03**	**+0.25**	**+1.00**	**+0.25**	**+0.04**
2.4 : 2.6	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.03**	**+0.26**	**+1.00**	**+0.25**	**+0.04**	**+0.02**
2.2 : 2.4	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.04**	**+0.26**	**+1.00**	**+0.26**	**+0.03**	**+0.01**	**+0.01**
2.0 : 2.2	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.04**	**+0.27**	**+1.00**	**+0.26**	**+0.03**	**+0.01**	+0.00	+0.00
1.8 : 2.0	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.03**	**+0.27**	**+1.00**	**+0.27**	**+0.04**	+0.00	+0.00	+0.00	+0.00
1.6 : 1.8	+0.00	+0.00	+0.00	**+0.01**	**+0.03**	**+0.26**	**+1.00**	**+0.27**	**+0.04**	+0.00	+0.00	+0.00	+0.00	+0.00
1.4 : 1.6	+0.00	+0.00	+0.00	**+0.03**	**+0.22**	**+1.00**	**+0.26**	**+0.03**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
1.1 : 1.4	+0.00	**+0.01**	**+0.03**	**+0.24**	**+1.00**	**+0.22**	**+0.03**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.9 : 1.1	+0.00	**+0.03**	**+0.25**	**+1.00**	**+0.24**	**+0.03**	**+0.01**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.6 : 0.9	**+0.03**	**+0.22**	**+1.00**	**+0.25**	**+0.03**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.3 : 0.6	**+0.19**	**+1.00**	**+0.22**	**+0.03**	**+0.01**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.0 : 0.3	**+1.00**	**+0.19**	**+0.03**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXXXII: Normalized inverse covariance matrix for the ΔR_{jj} distribution.

Analysis bin	0.6 : 1.0	1.0 : 1.4	1.4 : 1.8	1.8 : 2.2	2.2 : 2.5	2.5 : 2.8	2.8 : 3.0	3.0 : 3.2	3.2 : 3.5	3.5 : 3.9	3.9 : 4.5	4.5 : 6.0
4.5 : 6.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.09**	**+1.00**
3.9 : 4.5	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.12**	**+1.00**	**+0.09**
3.5 : 3.9	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.01**	**+0.14**	**+1.00**	**+0.12**	+0.00
3.2 : 3.5	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.02**	**+0.19**	**+1.00**	**+0.14**	+0.00	+0.00
3.0 : 3.2	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.02**	**+0.21**	**+1.00**	**+0.19**	**+0.01**	+0.00	+0.00
2.8 : 3.0	+0.00	+0.00	+0.00	+0.00	**+0.01**	**+0.18**	**+1.00**	**+0.21**	**+0.02**	+0.00	+0.00	+0.00
2.5 : 2.8	+0.00	+0.00	+0.00	**+0.01**	**+0.17**	**+1.00**	**+0.18**	**+0.02**	+0.00	+0.00	+0.00	+0.00
2.2 : 2.5	+0.00	+0.00	+0.00	**+0.16**	**+1.00**	**+0.17**	**+0.01**	+0.00	+0.00	+0.00	+0.00	+0.00
1.8 : 2.2	+0.00	+0.00	**+0.14**	**+1.00**	**+0.16**	**+0.01**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
1.4 : 1.8	**+0.01**	**+0.14**	**+1.00**	**+0.14**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
1.0 : 1.4	**+0.17**	**+1.00**	**+0.14**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.6 : 1.0	**+1.00**	**+0.17**	**+0.01**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXXXIII: Normalized inverse covariance matrix for the Δy_{13} distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.01**	**−0.02**	**+0.01**	**+0.02**	**+1.00**
4.0 : 5.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.01**	**+0.06**	**+1.00**	**+0.02**
3.2 : 4.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.14**	**+1.00**	**+0.06**	**+0.01**
2.6 : 3.2	+0.00	+0.00	+0.00	+0.00	**+0.01**	**+0.12**	**+1.00**	**+0.14**	**+0.01**	**−0.02**
2.1 : 2.6	+0.00	+0.00	+0.00	**+0.02**	**+0.13**	**+1.00**	**+0.12**	+0.00	+0.00	**+0.01**
1.6 : 2.1	+0.00	+0.00	**+0.02**	**+0.14**	**+1.00**	**+0.13**	**+0.01**	+0.00	+0.00	+0.00
1.2 : 1.6	+0.00	**+0.02**	**+0.14**	**+1.00**	**+0.14**	**+0.02**	+0.00	+0.00	+0.00	+0.00
0.8 : 1.2	**+0.02**	**+0.15**	**+1.00**	**+0.14**	**+0.02**	+0.00	+0.00	+0.00	+0.00	+0.00
0.4 : 0.8	**+0.15**	**+1.00**	**+0.15**	**+0.02**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.0 : 0.4	**+1.00**	**+0.15**	**+0.02**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXXXIV: Normalized inverse covariance matrix for the Δy_{23} distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.01**	**−0.02**	**+1.00**
4.0 : 5.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.07**	**+1.00**	**−0.02**
3.2 : 4.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.15**	**+1.00**	**+0.07**	**+0.01**
2.6 : 3.2	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.13**	**+1.00**	**+0.15**	+0.00	+0.00
2.1 : 2.6	+0.00	+0.00	+0.00	**+0.01**	**+0.13**	**+1.00**	**+0.13**	+0.00	+0.00	+0.00
1.6 : 2.1	+0.00	+0.00	**+0.01**	**+0.15**	**+1.00**	**+0.13**	+0.00	+0.00	+0.00	+0.00
1.2 : 1.6	+0.00	**+0.02**	**+0.14**	**+1.00**	**+0.15**	**+0.01**	+0.00	+0.00	+0.00	+0.00
0.8 : 1.2	**+0.02**	**+0.16**	**+1.00**	**+0.14**	**+0.01**	+0.00	+0.00	+0.00	+0.00	+0.00
0.4 : 0.8	**+0.14**	**+1.00**	**+0.16**	**+0.02**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.0 : 0.4	**+1.00**	**+0.14**	**+0.02**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXXXV: Normalized inverse covariance matrix for the W boson p_T [one-jet] distribution.

Analysis bin	0.0 : 10.0	10.0 : 20.0	20.0 : 30.0	30.0 : 40.0	40.0 : 50.0	50.0 : 65.0	65.0 : 80.0	80.0 : 100.0	100.0 : 135.0	135.0 : 200.0	200.0 : 300.0
200.0 : 300.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.02	+0.21	+1.00
135.0 : 200.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.05	+0.33	+1.00	+0.21
100.0 : 135.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.02	+0.11	+0.52	+1.00	+0.33	+0.02
80.0 : 100.0	+0.00	+0.00	+0.00	+0.00	+0.03	+0.17	+0.63	+1.00	+0.52	+0.05	+0.00
65.0 : 80.0	+0.00	+0.00	+0.00	+0.04	+0.20	+0.62	+1.00	+0.63	+0.11	+0.00	+0.00
50.0 : 65.0	+0.00	+0.02	+0.07	+0.26	+0.69	+1.00	+0.62	+0.17	+0.02	+0.00	+0.00
40.0 : 50.0	+0.02	+0.09	+0.30	+0.72	+1.00	+0.69	+0.20	+0.03	+0.00	+0.00	+0.00
30.0 : 40.0	+0.09	+0.32	+0.74	+1.00	+0.72	+0.26	+0.04	+0.00	+0.00	+0.00	+0.00
20.0 : 30.0	+0.30	+0.73	+1.00	+0.74	+0.30	+0.07	+0.00	+0.00	+0.00	+0.00	+0.00
10.0 : 20.0	+0.75	+1.00	+0.73	+0.32	+0.09	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00
0.0 : 10.0	+1.00	+0.75	+0.30	+0.09	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXXXVI: Normalized inverse covariance matrix for the W boson p_T [two-jet] distribution.

Analysis bin	0.0 : 15.0	15.0 : 25.0	25.0 : 35.0	35.0 : 45.0	45.0 : 55.0	55.0 : 65.0	65.0 : 80.0	80.0 : 105.0	105.0 : 140.0	140.0 : 190.0	190.0 : 250.0
190.0 : 250.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.03	+0.33	+1.00
140.0 : 190.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.05	+0.35	+1.00	+0.33
105.0 : 140.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.02	+0.08	+0.45	+1.00	+0.35	+0.03
80.0 : 105.0	+0.00	+0.00	+0.00	+0.01	+0.06	+0.21	+0.61	+1.00	+0.45	+0.05	+0.00
65.0 : 80.0	+0.00	+0.00	+0.03	+0.11	+0.35	+0.75	+1.00	+0.61	+0.08	+0.00	+0.00
55.0 : 65.0	+0.00	+0.03	+0.11	+0.37	+0.78	+1.00	+0.75	+0.21	+0.02	+0.00	+0.00
45.0 : 55.0	+0.02	+0.10	+0.34	+0.76	+1.00	+0.78	+0.35	+0.06	+0.00	+0.00	+0.00
35.0 : 45.0	+0.09	+0.32	+0.74	+1.00	+0.76	+0.37	+0.11	+0.01	+0.00	+0.00	+0.00
25.0 : 35.0	+0.31	+0.74	+1.00	+0.74	+0.34	+0.11	+0.03	+0.00	+0.00	+0.00	+0.00
15.0 : 25.0	+0.73	+1.00	+0.74	+0.32	+0.10	+0.03	+0.00	+0.00	+0.00	+0.00	+0.00
0.0 : 15.0	+1.00	+0.73	+0.31	+0.09	+0.02	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXXXVII: Normalized inverse covariance matrix for the W boson p_T [three-jet] distribution.

Analysis bin	0.0 : 15.0	15.0 : 30.0	30.0 : 45.0	45.0 : 60.0	60.0 : 75.0	75.0 : 90.0	90.0 : 115.0	115.0 : 150.0	150.0 : 250.0
150.0 : 250.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.05	+0.35	+1.00
115.0 : 150.0	+0.00	+0.00	+0.00	+0.00	+0.02	+0.12	+0.49	+1.00	+0.35
90.0 : 115.0	+0.00	+0.00	+0.00	+0.04	+0.21	+0.68	+1.00	+0.49	+0.05
75.0 : 90.0	+0.00	+0.00	+0.05	+0.24	+0.68	+1.00	+0.68	+0.12	+0.00
60.0 : 75.0	+0.00	+0.04	+0.23	+0.69	+1.00	+0.68	+0.21	+0.02	+0.00
45.0 : 60.0	+0.05	+0.22	+0.67	+1.00	+0.69	+0.24	+0.04	+0.00	+0.00
30.0 : 45.0	+0.25	+0.66	+1.00	+0.67	+0.23	+0.05	+0.00	+0.00	+0.00
15.0 : 30.0	+0.74	+1.00	+0.66	+0.22	+0.04	+0.00	+0.00	+0.00	+0.00
0.0 : 15.0	+1.00	+0.74	+0.25	+0.05	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXXXVIII: Normalized inverse covariance matrix for the W boson p_T [four-jet] distribution.

Analysis bin	0.0 : 20.0	20.0 : 35.0	35.0 : 50.0	50.0 : 70.0	70.0 : 100.0	100.0 : 135.0	135.0 : 200.0
135.0 : 200.0	+0.00	+0.00	+0.00	+0.00	+0.04	+0.33	+1.00
100.0 : 135.0	+0.00	+0.00	+0.01	+0.06	+0.41	+1.00	+0.33
70.0 : 100.0	+0.00	+0.03	+0.15	+0.55	+1.00	+0.41	+0.04
50.0 : 70.0	+0.06	+0.25	+0.68	+1.00	+0.55	+0.06	+0.00
35.0 : 50.0	+0.30	+0.70	+1.00	+0.68	+0.15	+0.01	+0.00
20.0 : 35.0	+0.73	+1.00	+0.70	+0.25	+0.03	+0.00	+0.00
0.0 : 20.0	+1.00	+0.73	+0.30	+0.06	+0.00	+0.00	+0.00

TABLE CXXXIX: Normalized inverse covariance matrix for the dijet p_T [two-jet] distribution.

Analysis bin	0.0 : 10.0	10.0 : 20.0	20.0 : 30.0	30.0 : 40.0	40.0 : 50.0	50.0 : 65.0	65.0 : 80.0	80.0 : 100.0	100.0 : 120.0	120.0 : 145.0	145.0 : 175.0	175.0 : 210.0	210.0 : 260.0	260.0 : 350.0
260.0 : 350.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.03**	**+0.40**	**+1.00**
210.0 : 260.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.07**	**+0.49**	**+1.00**	**+0.40**
175.0 : 210.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.01**	**+0.08**	**+0.54**	**+1.00**	**+0.49**	**+0.03**
145.0 : 175.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.02**	**+0.13**	**+0.52**	**+1.00**	**+0.54**	**+0.07**	+0.00
120.0 : 145.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.02**	**+0.13**	**+0.62**	**+1.00**	**+0.52**	**+0.08**	+0.00	+0.00
100.0 : 120.0	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.02**	**+0.14**	**+0.56**	**+1.00**	**+0.62**	**+0.13**	**+0.01**	+0.00	+0.00
80.0 : 100.0	+0.00	+0.00	+0.00	+0.00	**+0.03**	**+0.17**	**+0.62**	**+1.00**	**+0.56**	**+0.13**	**+0.02**	+0.00	+0.00	+0.00
65.0 : 80.0	+0.00	+0.00	**+0.01**	**+0.05**	**+0.20**	**+0.62**	**+1.00**	**+0.62**	**+0.14**	**+0.02**	+0.00	+0.00	+0.00	+0.00
50.0 : 65.0	+0.00	**+0.01**	**+0.06**	**+0.26**	**+0.68**	**+1.00**	**+0.62**	**+0.17**	**+0.02**	+0.00	+0.00	+0.00	+0.00	+0.00
40.0 : 50.0	**+0.01**	**+0.06**	**+0.25**	**+0.70**	**+1.00**	**+0.68**	**+0.20**	**+0.03**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
30.0 : 40.0	**+0.05**	**+0.22**	**+0.67**	**+1.00**	**+0.70**	**+0.26**	**+0.05**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
20.0 : 30.0	**+0.22**	**+0.63**	**+1.00**	**+0.67**	**+0.25**	**+0.06**	**+0.01**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
10.0 : 20.0	**+0.65**	**+1.00**	**+0.63**	**+0.22**	**+0.06**	**+0.01**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
0.0 : 10.0	**+1.00**	**+0.65**	**+0.22**	**+0.05**	**+0.01**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXL: Normalized inverse covariance matrix for the dijet p_T [three-jet] distribution.

Analysis bin	0.0 : 15.0	15.0 : 30.0	30.0 : 45.0	45.0 : 65.0	65.0 : 85.0	85.0 : 110.0	110.0 : 140.0	140.0 : 175.0	175.0 : 210.0	210.0 : 280.0
210.0 : 280.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.06**	**+0.47**	**+1.00**
175.0 : 210.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.06**	**+0.45**	**+1.00**	**+0.47**
140.0 : 175.0	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.07**	**+0.47**	**+1.00**	**+0.45**	**+0.06**
110.0 : 140.0	+0.00	+0.00	+0.00	+0.00	**+0.08**	**+0.50**	**+1.00**	**+0.47**	**+0.06**	+0.00
85.0 : 110.0	+0.00	+0.00	**+0.01**	**+0.11**	**+0.52**	**+1.00**	**+0.50**	**+0.07**	+0.00	+0.00
65.0 : 85.0	+0.00	**+0.02**	**+0.10**	**+0.52**	**+1.00**	**+0.52**	**+0.08**	+0.00	+0.00	+0.00
45.0 : 65.0	**+0.02**	**+0.13**	**+0.50**	**+1.00**	**+0.52**	**+0.11**	+0.00	+0.00	+0.00	+0.00
30.0 : 45.0	**+0.14**	**+0.56**	**+1.00**	**+0.50**	**+0.10**	**+0.01**	+0.00	+0.00	+0.00	+0.00
15.0 : 30.0	**+0.58**	**+1.00**	**+0.56**	**+0.13**	**+0.02**	+0.00	+0.00	+0.00	+0.00	+0.00
0.0 : 15.0	**+1.00**	**+0.58**	**+0.14**	**+0.02**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXLI: Normalized inverse covariance matrix for the dijet invariant mass [two-jet] distribution.

Analysis bin	20.0 : 30.0	30.0 : 40.0	40.0 : 50.0	50.0 : 60.0	60.0 : 80.0	80.0 : 100.0	100.0 : 120.0	120.0 : 145.0	145.0 : 175.0	175.0 : 210.0	210.0 : 250.0	250.0 : 300.0	300.0 : 375.0
300.0 : 375.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.01**	**+0.11**	**+0.55**	**+1.00**
250.0 : 300.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.02**	**+0.14**	**+0.57**	**+1.00**	**+0.55**
210.0 : 250.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.02**	**+0.14**	**+0.59**	**+1.00**	**+0.57**	**+0.11**
175.0 : 210.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.03**	**+0.16**	**+0.61**	**+1.00**	**+0.59**	**+0.14**	**+0.01**
145.0 : 175.0	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.03**	**+0.18**	**+0.62**	**+1.00**	**+0.61**	**+0.14**	**+0.02**	+0.00
120.0 : 145.0	+0.00	+0.00	+0.00	+0.00	**+0.02**	**+0.19**	**+0.66**	**+1.00**	**+0.62**	**+0.16**	**+0.02**	+0.00	+0.00
100.0 : 120.0	+0.00	+0.00	+0.00	**+0.02**	**+0.15**	**+0.65**	**+1.00**	**+0.66**	**+0.18**	**+0.03**	+0.00	+0.00	+0.00
80.0 : 100.0	+0.00	+0.00	**+0.02**	**+0.15**	**+0.57**	**+1.00**	**+0.65**	**+0.19**	**+0.03**	+0.00	+0.00	+0.00	+0.00
60.0 : 80.0	+0.00	**+0.03**	**+0.20**	**+0.61**	**+1.00**	**+0.57**	**+0.15**	**+0.02**	+0.00	+0.00	+0.00	+0.00	+0.00
50.0 : 60.0	**+0.03**	**+0.19**	**+0.70**	**+1.00**	**+0.61**	**+0.15**	**+0.02**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
40.0 : 50.0	**+0.17**	**+0.61**	**+1.00**	**+0.70**	**+0.20**	**+0.02**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
30.0 : 40.0	**+0.66**	**+1.00**	**+0.61**	**+0.19**	**+0.03**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00
20.0 : 30.0	**+1.00**	**+0.66**	**+0.17**	**+0.03**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXLII: Normalized inverse covariance matrix for the dijet invariant mass [three-jet] distribution.

Analysis bin	30.0 : 45.0	45.0 : 65.0	65.0 : 85.0	85.0 : 110.0	110.0 : 140.0	140.0 : 175.0	175.0 : 210.0	210.0 : 260.0	260.0 : 330.0
260.0 : 330.0	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.11**	**+0.45**	**+1.00**
210.0 : 260.0	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.09**	**+0.57**	**+1.00**	**+0.45**
175.0 : 210.0	+0.00	+0.00	+0.00	+0.00	**+0.09**	**+0.50**	**+1.00**	**+0.57**	**+0.11**
140.0 : 175.0	+0.00	+0.00	+0.00	**+0.09**	**+0.50**	**+1.00**	**+0.50**	**+0.09**	+0.00
110.0 : 140.0	+0.00	+0.00	**+0.10**	**+0.50**	**+1.00**	**+0.50**	**+0.09**	+0.00	+0.00
85.0 : 110.0	+0.00	**+0.08**	**+0.54**	**+1.00**	**+0.50**	**+0.09**	+0.00	+0.00	+0.00
65.0 : 85.0	**+0.06**	**+0.47**	**+1.00**	**+0.54**	**+0.10**	+0.00	+0.00	+0.00	+0.00
45.0 : 65.0	**+0.39**	**+1.00**	**+0.47**	**+0.08**	+0.00	+0.00	+0.00	+0.00	+0.00
30.0 : 45.0	**+1.00**	**+0.39**	**+0.06**	+0.00	+0.00	+0.00	+0.00	+0.00	+0.00

TABLE CXLIII: Normalized inverse covariance matrix for the H_T [one-jet] distribution.

Analysis bin	100.0 : 120.0	120.0 : 140.0	140.0 : 170.0	170.0 : 200.0	200.0 : 245.0	245.0 : 300.0	300.0 : 360.0	360.0 : 470.0
360.0 : 470.0	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.06**	**+0.44**	**+1.00**
300.0 : 360.0	+0.00	+0.00	+0.00	+0.00	**+0.08**	**+0.46**	**+1.00**	**+0.44**
245.0 : 300.0	+0.00	+0.00	**+0.01**	**+0.09**	**+0.47**	**+1.00**	**+0.46**	**+0.06**
200.0 : 245.0	+0.00	**+0.02**	**+0.12**	**+0.55**	**+1.00**	**+0.47**	**+0.08**	+0.00
170.0 : 200.0	**+0.02**	**+0.13**	**+0.54**	**+1.00**	**+0.55**	**+0.09**	+0.00	+0.00
140.0 : 170.0	**+0.14**	**+0.56**	**+1.00**	**+0.54**	**+0.12**	**+0.01**	+0.00	+0.00
120.0 : 140.0	**+0.55**	**+1.00**	**+0.56**	**+0.13**	**+0.02**	+0.00	+0.00	+0.00
100.0 : 120.0	**+1.00**	**+0.55**	**+0.14**	**+0.02**	+0.00	+0.00	+0.00	+0.00

TABLE CXLIV: Normalized inverse covariance matrix for the H_T [two-jet] distribution.

Analysis bin	120.0 : 135.0	135.0 : 155.0	155.0 : 185.0	185.0 : 230.0	230.0 : 280.0	280.0 : 340.0	340.0 : 390.0	390.0 : 460.0
390.0 : 460.0	+0.00	+0.00	+0.00	+0.00	+0.00	**+0.08**	**+0.61**	**+1.00**
340.0 : 390.0	+0.00	+0.00	+0.00	+0.00	**+0.07**	**+0.44**	**+1.00**	**+0.61**
280.0 : 340.0	+0.00	+0.00	+0.00	**+0.05**	**+0.44**	**+1.00**	**+0.44**	**+0.08**
230.0 : 280.0	+0.00	+0.00	**+0.06**	**+0.41**	**+1.00**	**+0.44**	**+0.07**	+0.00
185.0 : 230.0	**+0.01**	**+0.09**	**+0.46**	**+1.00**	**+0.41**	**+0.05**	+0.00	+0.00
155.0 : 185.0	**+0.17**	**+0.55**	**+1.00**	**+0.46**	**+0.06**	+0.00	+0.00	+0.00
135.0 : 155.0	**+0.67**	**+1.00**	**+0.55**	**+0.09**	+0.00	+0.00	+0.00	+0.00
120.0 : 135.0	**+1.00**	**+0.67**	**+0.17**	**+0.01**	+0.00	+0.00	+0.00	+0.00

TABLE CXLV: Normalized inverse covariance matrix for the H_T [three-jet] distribution.

Analysis bin	140.0 : 165.0	165.0 : 200.0	200.0 : 240.0	240.0 : 290.0	290.0 : 340.0	340.0 : 390.0	390.0 : 450.0
390.0 : 450.0	+0.00	+0.00	+0.00	+0.00	**+0.08**	**+0.60**	**+1.00**
340.0 : 390.0	+0.00	+0.00	+0.00	**+0.07**	**+0.50**	**+1.00**	**+0.60**
290.0 : 340.0	+0.00	+0.00	**+0.06**	**+0.46**	**+1.00**	**+0.50**	**+0.08**
240.0 : 290.0	+0.00	**+0.06**	**+0.44**	**+1.00**	**+0.46**	**+0.07**	+0.00
200.0 : 240.0	**+0.11**	**+0.46**	**+1.00**	**+0.44**	**+0.06**	+0.00	+0.00
165.0 : 200.0	**+0.56**	**+1.00**	**+0.46**	**+0.06**	+0.00	+0.00	+0.00
140.0 : 165.0	**+1.00**	**+0.56**	**+0.11**	+0.00	+0.00	+0.00	+0.00

TABLE CXLVI: Normalized inverse covariance matrix for the H_T [four-jet] distribution.

Analysis bin	160.0 : 200.0	200.0 : 250.0	250.0 : 310.0	310.0 : 370.0	370.0 : 450.0
370.0 : 450.0	+0.00	+0.00	**+0.02**	**+0.46**	**+1.00**
310.0 : 370.0	+0.00	**+0.03**	**+0.35**	**+1.00**	**+0.46**
250.0 : 310.0	**+0.03**	**+0.36**	**+1.00**	**+0.35**	**+0.02**
200.0 : 250.0	**+0.28**	**+1.00**	**+0.36**	**+0.03**	+0.00
160.0 : 200.0	**+1.00**	**+0.28**	**+0.03**	+0.00	+0.00

APPENDIX D: SYSTEMATIC UNCERTAINTY CORRELATIONS ON UNFOLDED DISTRIBUTIONS

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In this appendix, we provide the bin-to-bin correlations of the systematic uncertainties for each measurement made in the main text of the paper, in tabular format. The full correlation matrix is obtained by summing the covariance matrices for each source of systematic uncertainty.

TABLE CXLVII: Systematic correlation matrix for the leading jet rapidity distribution.

Analysis bin	−3.2 : −2.8	−2.8 : −2.4	−2.4 : −2.0	−2.0 : −1.6	−1.6 : −1.2	−1.2 : −0.8	−0.8 : −0.4	−0.4 : 0.0	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.0	2.0 : 2.4	2.4 : 2.8	2.8 : 3.2
2.8 : 3.2	+1.00	+1.00	+1.00	+0.98	+0.94	+0.93	+0.97	+0.98	+0.97	+0.97	+0.93	+0.94	+0.98	+1.00	+1.00	+1.00
2.4 : 2.8	+1.00	+1.00	+1.00	+0.99	+0.95	+0.94	+0.97	+0.98	+0.98	+0.97	+0.94	+0.95	+0.99	+1.00	+1.00	+1.00
2.0 : 2.4	+1.00	+1.00	+1.00	+0.99	+0.96	+0.96	+0.98	+0.98	+0.98	+0.98	+0.96	+0.97	+0.99	+1.00	+1.00	+1.00
1.6 : 2.0	+0.98	+0.99	+1.00	+1.00	+0.99	+0.98	+0.99	+0.98	+0.98	+0.99	+0.98	+0.99	+1.00	+0.99	+0.99	+0.98
1.2 : 1.6	+0.94	+0.95	+0.97	+0.99	+1.00	+1.00	+0.98	+0.95	+0.95	+0.98	+1.00	+1.00	+0.99	+0.97	+0.95	+0.94
0.8 : 1.2	+0.93	+0.94	+0.96	+0.98	+1.00	+1.00	+0.98	+0.95	+0.95	+0.98	+1.00	+1.00	+0.98	+0.96	+0.94	+0.93
0.4 : 0.8	+0.97	+0.97	+0.98	+0.99	+0.98	+0.99	+1.00	+0.99	+0.99	+1.00	+0.98	+0.98	+0.99	+0.98	+0.97	+0.97
0.0 : 0.4	+0.97	+0.98	+0.98	+0.98	+0.95	+0.95	+0.99	+1.00	+1.00	+0.99	+0.95	+0.95	+0.98	+0.98	+0.98	+0.97
−0.4 : 0.0	+0.98	+0.98	+0.98	+0.98	+0.95	+0.95	+0.99	+1.00	+1.00	+0.99	+0.95	+0.95	+0.98	+0.98	+0.98	+0.98
−0.8 : −0.4	+0.97	+0.98	+0.98	+0.99	+0.98	+0.99	+1.00	+0.99	+0.99	+1.00	+0.98	+0.98	+0.99	+0.98	+0.97	+0.97
−1.2 : −0.8	+0.94	+0.94	+0.96	+0.98	+1.00	+1.00	+0.99	+0.95	+0.95	+0.99	+1.00	+1.00	+0.98	+0.96	+0.94	+0.93
−1.6 : −1.2	+0.94	+0.95	+0.96	+0.99	+1.00	+1.00	+0.98	+0.95	+0.95	+0.98	+1.00	+1.00	+0.99	+0.96	+0.95	+0.94
−2.0 : −1.6	+0.98	+0.99	+0.99	+1.00	+0.99	+0.98	+0.99	+0.98	+0.98	+0.99	+0.98	+0.99	+1.00	+0.99	+0.99	+0.98
−2.4 : −2.0	+1.00	+1.00	+1.00	+0.99	+0.96	+0.96	+0.98	+0.98	+0.98	+0.98	+0.96	+0.97	+1.00	+1.00	+1.00	+1.00
−2.8 : −2.4	+1.00	+1.00	+1.00	+0.99	+0.95	+0.94	+0.98	+0.98	+0.98	+0.97	+0.94	+0.95	+0.99	+1.00	+1.00	+1.00
−3.2 : −2.8	+1.00	+1.00	+1.00	+0.98	+0.94	+0.94	+0.97	+0.98	+0.97	+0.97	+0.93	+0.94	+0.98	+1.00	+1.00	+1.00

TABLE CXLVIII: Systematic correlation matrix for the second jet rapidity distribution.

Analysis bin	−3.2 : −2.8	−2.8 : −2.4	−2.4 : −2.0	−2.0 : −1.6	−1.6 : −1.2	−1.2 : −0.8	−0.8 : −0.4	−0.4 : 0.0	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.0	2.0 : 2.4	2.4 : 2.8	2.8 : 3.2
2.8 : 3.2	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00
2.4 : 2.8	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00
2.0 : 2.4	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00
1.6 : 2.0	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
1.2 : 1.6	+0.98	+0.99	+0.99	+1.00	+1.00	+1.00	+0.99	+0.98	+0.98	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99
0.8 : 1.2	+0.98	+0.98	+0.99	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99
0.4 : 0.8	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99
0.0 : 0.4	+0.99	+0.99	+0.99	+0.99	+0.98	+0.99	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.99	+0.99	+0.99	+0.99
−0.4 : 0.0	+0.99	+0.99	+0.99	+0.99	+0.98	+0.98	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.99	+0.99	+0.99	+0.99
−0.8 : −0.4	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+1.00	+0.99	+0.99	+0.99
−1.2 : −0.8	+0.98	+0.98	+0.99	+1.00	+1.00	+1.00	+1.00	+0.98	+0.99	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99
−1.6 : −1.2	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+0.98	+0.98	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99
−2.0 : −1.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−2.4 : −2.0	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00
−2.8 : −2.4	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.99	+0.99	+0.99	+0.99	+0.98	+0.99	+0.99	+1.00	+1.00	+1.00
−3.2 : −2.8	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.99	+0.99	+0.99	+0.99	+0.98	+0.98	+0.99	+1.00	+1.00	+1.00

TABLE CXLIX: Systematic correlation matrix for the third jet rapidity distribution.

Analysis bin	−3.2 : −2.4	−2.4 : −1.6	−1.6 : −0.8	−0.8 : 0.0	0.0 : 0.8	0.8 : 1.6	1.6 : 2.4	2.4 : 3.2
2.4 : 3.2	+1.00	+1.00	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00
1.6 : 2.4	+1.00	+1.00	+1.00	+0.99	+0.99	+1.00	+1.00	+1.00
0.8 : 1.6	+0.99	+1.00	+1.00	+0.99	+0.99	+1.00	+1.00	+1.00
0.0 : 0.8	+0.99	+0.99	+0.99	+1.00	+1.00	+0.99	+0.99	+0.99
−0.8 : 0.0	+0.99	+0.99	+0.99	+1.00	+1.00	+0.99	+0.99	+0.99
−1.6 : −0.8	+0.99	+1.00	+1.00	+0.99	+0.99	+1.00	+1.00	+0.99
−2.4 : −1.6	+1.00	+1.00	+1.00	+0.99	+0.99	+1.00	+1.00	+1.00
−3.2 : −2.4	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00

TABLE CL: Systematic correlation matrix for the fourth jet rapidity distribution.

Analysis bin	−3.2 : −2.4	−2.4 : −1.6	−1.6 : −0.8	−0.8 : 0.0	0.0 : 0.8	0.8 : 1.6	1.6 : 2.4	2.4 : 3.2
2.4 : 3.2	+0.99	+1.00	+1.00	+0.99	+0.99	+1.00	+1.00	+1.00
1.6 : 2.4	+0.99	+0.99	+1.00	+0.99	+0.99	+1.00	+1.00	+1.00
0.8 : 1.6	+0.98	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
0.0 : 0.8	+0.98	+0.99	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99
−0.8 : 0.0	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99
−1.6 : −0.8	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−2.4 : −1.6	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99	+1.00
−3.2 : −2.4	+1.00	+1.00	+0.99	+0.99	+0.98	+0.98	+0.99	+0.99

TABLE CLI: Systematic correlation matrix for the lepton p_T [one-jet] distribution.

Analysis bin	0.0 : 5.0	5.0 : 10.0	10.0 : 15.0	15.0 : 25.0	25.0 : 35.0	35.0 : 45.0	45.0 : 55.0	55.0 : 70.0	70.0 : 90.0	90.0 : 130.0	130.0 : 200.0	200.0 : 300.0
200.0 : 300.0	+1.00	+1.00	+1.00	+0.09	+0.10	+0.10	+0.10	+0.08	+0.08	+0.18	+0.66	+1.00
130.0 : 200.0	+0.59	+0.59	+0.59	+0.71	+0.80	+0.79	+0.80	+0.68	+0.58	+0.84	+1.00	+0.66
90.0 : 130.0	+0.08	+0.08	+0.08	+0.83	+0.93	+0.92	+0.95	+0.87	+0.83	+1.00	+0.84	+0.18
70.0 : 90.0	+0.01	+0.01	+0.01	+0.56	+0.59	+0.58	+0.63	+0.77	+1.00	+0.83	+0.58	+0.08
55.0 : 70.0	+0.00	+0.00	+0.00	+0.67	+0.75	+0.75	+0.85	+1.00	+0.77	+0.87	+0.68	+0.08
45.0 : 55.0	+0.00	+0.00	+0.00	+0.83	+0.98	+0.98	+1.00	+0.85	+0.63	+0.95	+0.80	+0.10
35.0 : 45.0	+0.00	+0.00	+0.00	+0.82	+0.99	+1.00	+0.98	+0.75	+0.58	+0.92	+0.79	+0.10
25.0 : 35.0	+0.00	+0.00	+0.00	+0.88	+1.00	+0.99	+0.98	+0.75	+0.59	+0.93	+0.80	+0.10
15.0 : 25.0	+0.00	+0.00	+0.00	+1.00	+0.88	+0.82	+0.83	+0.67	+0.56	+0.83	+0.71	+0.09
10.0 : 15.0	+1.00	+1.00	+1.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.01	+0.08	+0.59	+1.00
5.0 : 10.0	+1.00	+1.00	+1.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.01	+0.08	+0.59	+1.00
0.0 : 5.0	+1.00	+1.00	+1.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.01	+0.08	+0.59	+1.00

TABLE CLII: Systematic correlation matrix for the lepton p_T [two-jet] distribution.

Analysis bin	0.0 : 5.0	5.0 : 10.0	10.0 : 15.0	15.0 : 25.0	25.0 : 35.0	35.0 : 45.0	45.0 : 55.0	55.0 : 70.0	70.0 : 100.0	100.0 : 170.0	170.0 : 250.0
170.0 : 250.0	+0.98	+0.98	+0.98	+0.17	+0.17	+0.17	+0.18	+0.19	+0.21	+0.41	+1.00
100.0 : 170.0	+0.21	+0.21	+0.21	+0.86	+0.88	+0.88	+0.89	+0.93	+0.97	+1.00	+0.41
70.0 : 100.0	+0.01	+0.01	+0.01	+0.92	+0.96	+0.96	+0.97	+0.99	+1.00	+0.97	+0.21
55.0 : 70.0	+0.00	+0.00	+0.00	+0.94	+0.99	+0.99	+1.00	+1.00	+0.99	+0.93	+0.19
45.0 : 55.0	+0.00	+0.00	+0.00	+0.95	+1.00	+1.00	+1.00	+1.00	+0.97	+0.89	+0.18
35.0 : 45.0	+0.00	+0.00	+0.00	+0.94	+1.00	+1.00	+1.00	+0.99	+0.96	+0.88	+0.17
25.0 : 35.0	+0.00	+0.00	+0.00	+0.97	+1.00	+1.00	+1.00	+0.99	+0.96	+0.88	+0.17
15.0 : 25.0	+0.00	+0.00	+0.00	+1.00	+0.97	+0.94	+0.95	+0.94	+0.92	+0.86	+0.17
10.0 : 15.0	+1.00	+1.00	+1.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.01	+0.21	+0.98
5.0 : 10.0	+1.00	+1.00	+1.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.01	+0.21	+0.98
0.0 : 5.0	+1.00	+1.00	+1.00	+0.00	+0.00	+0.00	+0.00	+0.00	+0.01	+0.21	+0.98

TABLE CLIII: Systematic correlation matrix for the lepton p_T [three-jet] distribution.

Analysis bin	0.0 : 5.0	5.0 : 10.0	10.0 : 15.0	15.0 : 25.0	25.0 : 35.0	35.0 : 50.0	50.0 : 70.0	70.0 : 110.0	110.0 : 150.0	150.0 : 250.0
150.0 : 250.0	+0.97	+0.97	+0.97	+0.24	+0.24	+0.24	+0.25	+0.28	+0.57	+1.00
110.0 : 150.0	+0.36	+0.36	+0.36	+0.91	+0.92	+0.92	+0.93	+0.95	+1.00	+0.57
70.0 : 110.0	+0.04	+0.04	+0.04	+0.98	+0.99	+0.99	+1.00	+1.00	+0.95	+0.28
50.0 : 70.0	+0.00	+0.00	+0.00	+0.98	+1.00	+1.00	+1.00	+1.00	+0.93	+0.25
35.0 : 50.0	+0.00	+0.00	+0.00	+0.99	+1.00	+1.00	+1.00	+0.99	+0.92	+0.24
25.0 : 35.0	+0.00	+0.00	+0.00	+0.99	+1.00	+1.00	+1.00	+0.99	+0.92	+0.24
15.0 : 25.0	+0.00	+0.00	+0.00	+1.00	+0.99	+0.99	+0.98	+0.98	+0.91	+0.24
10.0 : 15.0	+1.00	+1.00	+1.00	+0.00	+0.00	+0.00	+0.00	+0.04	+0.36	+0.97
5.0 : 10.0	+1.00	+1.00	+1.00	+0.00	+0.00	+0.00	+0.00	+0.04	+0.36	+0.97
0.0 : 5.0	+1.00	+1.00	+1.00	+0.00	+0.00	+0.00	+0.00	+0.04	+0.36	+0.97

TABLE CLIV: Systematic correlation matrix for the lepton p_T [four-jet] distribution.

Analysis bin	0.0 : 5.0	5.0 : 10.0	10.0 : 15.0	15.0 : 25.0	25.0 : 35.0	35.0 : 50.0	50.0 : 70.0	70.0 : 130.0	130.0 : 200.0
130.0 : 200.0	+0.96	+0.96	+0.96	+0.27	+0.27	+0.28	+0.30	+0.47	+1.00
70.0 : 130.0	+0.22	+0.22	+0.22	+0.96	+0.98	+0.98	+0.98	+1.00	+0.47
50.0 : 70.0	+0.04	+0.04	+0.04	+0.99	+1.00	+1.00	+1.00	+0.98	+0.30
35.0 : 50.0	+0.02	+0.02	+0.02	+0.98	+1.00	+1.00	+1.00	+0.98	+0.28
25.0 : 35.0	+0.01	+0.01	+0.01	+0.99	+1.00	+1.00	+1.00	+0.98	+0.27
15.0 : 25.0	+0.01	+0.01	+0.01	+1.00	+0.99	+0.98	+0.99	+0.96	+0.27
10.0 : 15.0	+1.00	+1.00	+1.00	+0.01	+0.01	+0.02	+0.04	+0.22	+0.96
5.0 : 10.0	+1.00	+1.00	+1.00	+0.01	+0.01	+0.02	+0.04	+0.22	+0.96
0.0 : 5.0	+1.00	+1.00	+1.00	+0.01	+0.01	+0.02	+0.04	+0.22	+0.96

TABLE CLV: Systematic correlation matrix for the lepton pseudorapidity [one-jet] distribution.

Analysis bin	−1.1 : −0.8	−0.8 : −0.6	−0.6 : −0.4	−0.4 : −0.2	−0.2 : 0.0	0.0 : 0.2	0.2 : 0.4	0.4 : 0.6	0.6 : 0.8	0.8 : 1.1
0.8 : 1.1	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
0.6 : 0.8	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
0.4 : 0.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
0.2 : 0.4	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
0.0 : 0.2	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−0.2 : 0.0	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−0.4 : −0.2	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−0.6 : −0.4	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−0.8 : −0.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−1.1 : −0.8	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00

TABLE CLVII: Systematic correlation matrix for the lepton pseudorapidity [three-jet] distribution.

Analysis bin	−1.1 : −0.8	−0.8 : −0.6	−0.6 : −0.4	−0.4 : −0.2	−0.2 : 0.0	0.0 : 0.2	0.2 : 0.4	0.4 : 0.6	0.6 : 0.8	0.8 : 1.1
0.8 : 1.1	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
0.6 : 0.8	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
0.4 : 0.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
0.2 : 0.4	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
0.0 : 0.2	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−0.2 : 0.0	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−0.4 : −0.2	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−0.6 : −0.4	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−0.8 : −0.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−1.1 : −0.8	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00

TABLE CLVIII: Systematic correlation matrix for the lepton pseudorapidity [four-jet] distribution.

Analysis bin	−1.1 : −0.6	−0.6 : −0.2	−0.2 : 0.2	0.2 : 0.6	0.6 : 1.1
0.6 : 1.1	+1.00	+1.00	+1.00	+1.00	+1.00
0.2 : 0.6	+1.00	+1.00	+1.00	+1.00	+1.00
−0.2 : 0.2	+1.00	+1.00	+1.00	+1.00	+1.00
−0.6 : −0.2	+1.00	+1.00	+1.00	+1.00	+1.00
−1.1 : −0.6	+1.00	+1.00	+1.00	+1.00	+1.00

TABLE CLVI: Systematic correlation matrix for the lepton pseudorapidity [two-jet] distribution.

Analysis bin	−1.1 : −0.8	−0.8 : −0.6	−0.6 : −0.4	−0.4 : −0.2	−0.2 : 0.0	0.0 : 0.2	0.2 : 0.4	0.4 : 0.6	0.6 : 0.8	0.8 : 1.1
0.8 : 1.1	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
0.6 : 0.8	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
0.4 : 0.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
0.2 : 0.4	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
0.0 : 0.2	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−0.2 : 0.0	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−0.4 : −0.2	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−0.6 : −0.4	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−0.8 : −0.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
−1.1 : −0.8	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00

TABLE CLIX: Systematic correlation matrix for the Δy_{12} [two-jet] distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	+0.98	+0.98	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
4.0 : 5.0	+0.98	+0.98	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
3.2 : 4.0	+0.98	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
2.6 : 3.2	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
2.1 : 2.6	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
1.6 : 2.1	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
1.2 : 1.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99
0.8 : 1.2	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99	+0.99
0.4 : 0.8	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.98	+0.98
0.0 : 0.4	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.98	+0.98	+0.98

TABLE CLX: Systematic correlation matrix for the Δy_{FB} [two-jet] distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	+0.97	+0.97	+0.97	+0.98	+0.98	+0.99	+1.00	+1.00	+1.00	+1.00
4.0 : 5.0	+0.97	+0.98	+0.98	+0.98	+0.98	+0.99	+1.00	+1.00	+1.00	+1.00
3.2 : 4.0	+0.97	+0.98	+0.98	+0.98	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00
2.6 : 3.2	+0.98	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00
2.1 : 2.6	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99
1.6 : 2.1	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.98	+0.98
1.2 : 1.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.98	+0.98
0.8 : 1.2	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.98	+0.97
0.4 : 0.8	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.98	+0.97
0.0 : 0.4	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.97	+0.97	+0.97

TABLE CLXI: Systematic correlation matrix for the Δy_{12} [three-jet] distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	+0.77	+0.76	+0.76	+0.77	+0.78	+0.79	+0.79	+0.80	+0.81	+1.00
4.0 : 5.0	+0.96	+0.95	+0.95	+0.96	+0.97	+0.98	+0.99	+1.00	+1.00	+0.81
3.2 : 4.0	+0.98	+0.98	+0.97	+0.98	+0.99	+0.99	+1.00	+1.00	+1.00	+0.80
2.6 : 3.2	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+0.99	+0.79
2.1 : 2.6	+1.00	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.79
1.6 : 2.1	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.97	+0.78
1.2 : 1.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.96	+0.77
0.8 : 1.2	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.97	+0.95	+0.76
0.4 : 0.8	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.98	+0.95	+0.76
0.0 : 0.4	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.96	+0.77

TABLE CLXII: Systematic correlation matrix for the Δy_{FB} [three-jet] distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	+0.98	+0.97	+0.97	+0.98	+0.98	+0.98	+0.99	+1.00	+1.00	+1.00
4.0 : 5.0	+0.98	+0.98	+0.97	+0.98	+0.98	+0.99	+0.99	+1.00	+1.00	+1.00
3.2 : 4.0	+0.99	+0.99	+0.98	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00
2.6 : 3.2	+1.00	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99
2.1 : 2.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.98
1.6 : 2.1	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.98
1.2 : 1.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.98
0.8 : 1.2	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.97	+0.97
0.4 : 0.8	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.98	+0.97
0.0 : 0.4	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.98

TABLE CLXIII: Systematic correlation matrix for the $\Delta\phi_{12}$ distribution.

Analysis bin	0.0 : 0.3	0.3 : 0.6	0.6 : 0.9	0.9 : 1.1	1.1 : 1.4	1.4 : 1.6	1.6 : 1.8	1.8 : 2.0	2.0 : 2.2	2.2 : 2.4	2.4 : 2.6	2.6 : 2.8	2.8 : 3.0	3.0 : 3.2
3.0 : 3.2	+0.98	+0.98	+0.98	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
2.8 : 3.0	+0.98	+0.98	+0.99	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
2.6 : 2.8	+0.98	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
2.4 : 2.6	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
2.2 : 2.4	+0.99	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
2.0 : 2.2	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
1.8 : 2.0	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
1.6 : 1.8	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99
1.4 : 1.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99
1.1 : 1.4	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99	+0.99
0.9 : 1.1	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99	+0.99
0.6 : 0.9	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99	+0.99	+0.98
0.3 : 0.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99	+0.98	+0.98
0.0 : 0.3	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.98	+0.98	+0.98

TABLE CLXIV: Systematic correlation matrix for the $\Delta\phi_{FB}$ distribution.

Analysis bin	0.0 : 0.3	0.3 : 0.6	0.6 : 0.9	0.9 : 1.1	1.1 : 1.4	1.4 : 1.6	1.6 : 1.8	1.8 : 2.0	2.0 : 2.2	2.2 : 2.4	2.4 : 2.6	2.6 : 2.8	2.8 : 3.0	3.0 : 3.2
3.0 : 3.2	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
2.8 : 3.0	+0.98	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
2.6 : 2.8	+0.98	+0.98	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
2.4 : 2.6	+0.98	+0.98	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
2.2 : 2.4	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
2.0 : 2.2	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
1.8 : 2.0	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+1.00	+1.00
1.6 : 1.8	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99
1.4 : 1.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99	+0.99
1.1 : 1.4	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99	+0.99
0.9 : 1.1	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99	+0.99
0.6 : 0.9	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99	+0.99
0.3 : 0.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.98	+0.99	+0.99
0.0 : 0.3	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.98	+0.98	+0.98	+0.99

TABLE CLXV: Systematic correlation matrix for the ΔR_{jj} distribution.

Analysis bin	0.6 : 1.0	1.0 : 1.4	1.4 : 1.8	1.8 : 2.2	2.2 : 2.5	2.5 : 2.8	2.8 : 3.0	3.0 : 3.2	3.2 : 3.5	3.5 : 3.9	3.9 : 4.5	4.5 : 6.0
4.5 : 6.0	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+0.98	+0.98	+0.99	+1.00	+1.00	+1.00
3.9 : 4.5	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+0.98	+0.99	+1.00	+1.00	+1.00
3.5 : 3.9	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00
3.2 : 3.5	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99
3.0 : 3.2	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.98
2.8 : 3.0	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.98
2.5 : 2.8	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99
2.2 : 2.5	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99
1.8 : 2.2	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+1.00	+1.00	+0.99	+0.99
1.4 : 1.8	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+1.00	+1.00	+0.99	+0.99
1.0 : 1.4	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+1.00	+1.00	+0.99	+0.99
0.6 : 1.0	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+1.00	+1.00	+0.99	+0.99

TABLE CLXVI: Systematic correlation matrix for the Δy_{13} distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	+0.98	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00
4.0 : 5.0	+0.98	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00
3.2 : 4.0	+0.98	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
2.6 : 3.2	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
2.1 : 2.6	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
1.6 : 2.1	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99
1.2 : 1.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99
0.8 : 1.2	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99
0.4 : 0.8	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99	+0.99
0.0 : 0.4	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.98	+0.98	+0.98

TABLE CLXVII: Systematic correlation matrix for the Δy_{23} distribution.

Analysis bin	0.0 : 0.4	0.4 : 0.8	0.8 : 1.2	1.2 : 1.6	1.6 : 2.1	2.1 : 2.6	2.6 : 3.2	3.2 : 4.0	4.0 : 5.0	5.0 : 6.0
5.0 : 6.0	+0.98	+0.99	+0.99	+0.98	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00
4.0 : 5.0	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00
3.2 : 4.0	+0.99	+0.99	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00
2.6 : 3.2	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00
2.1 : 2.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99
1.6 : 2.1	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99
1.2 : 1.6	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.98
0.8 : 1.2	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99
0.4 : 0.8	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.99
0.0 : 0.4	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.98

TABLE CLXVIII: Systematic correlation matrix for the W boson p_T [one-jet] distribution.

Analysis bin	0.0 : 10.0	10.0 : 20.0	20.0 : 30.0	30.0 : 40.0	40.0 : 50.0	50.0 : 65.0	65.0 : 80.0	80.0 : 100.0	100.0 : 135.0	135.0 : 200.0	200.0 : 300.0
200.0 : 300.0	+0.09	+0.11	+0.17	+0.16	+0.18	+0.22	+0.22	+0.24	+0.28	+0.51	+1.00
135.0 : 200.0	+0.50	+0.54	+0.75	+0.74	+0.81	+0.92	+0.88	+0.90	+0.96	+1.00	+0.51
100.0 : 135.0	+0.43	+0.48	+0.77	+0.70	+0.79	+0.95	+0.96	+0.97	+1.00	+0.96	+0.28
80.0 : 100.0	+0.24	+0.28	+0.69	+0.55	+0.65	+0.87	+1.00	+1.00	+0.97	+0.90	+0.24
65.0 : 80.0	+0.22	+0.26	+0.63	+0.53	+0.63	+0.85	+1.00	+1.00	+0.96	+0.88	+0.22
50.0 : 65.0	+0.60	+0.67	+0.88	+0.81	+0.89	+1.00	+0.85	+0.87	+0.95	+0.92	+0.22
40.0 : 50.0	+0.89	+0.91	+0.66	+0.99	+1.00	+0.89	+0.63	+0.65	+0.79	+0.81	+0.18
30.0 : 40.0	+0.94	+0.94	+0.57	+1.00	+0.99	+0.81	+0.53	+0.55	+0.70	+0.74	+0.16
20.0 : 30.0	+0.39	+0.50	+1.00	+0.57	+0.66	+0.88	+0.63	+0.69	+0.77	+0.75	+0.17
10.0 : 20.0	+0.99	+1.00	+0.50	+0.94	+0.91	+0.67	+0.26	+0.28	+0.48	+0.54	+0.11
0.0 : 10.0	+1.00	+0.99	+0.39	+0.94	+0.89	+0.60	+0.22	+0.24	+0.43	+0.50	+0.09

TABLE CLXIX: Systematic correlation matrix for the W boson p_T [two-jet] distribution.

Analysis bin	0.0 : 15.0	15.0 : 25.0	25.0 : 35.0	35.0 : 45.0	45.0 : 55.0	55.0 : 65.0	65.0 : 80.0	80.0 : 105.0	105.0 : 140.0	140.0 : 190.0	190.0 : 250.0
190.0 : 250.0	+0.62	+0.60	+0.60	+0.62	+0.65	+0.66	+0.67	+0.67	+0.70	+0.80	+1.00
140.0 : 190.0	+0.87	+0.85	+0.84	+0.88	+0.93	+0.97	+0.97	+0.98	+0.99	+1.00	+0.80
105.0 : 140.0	+0.89	+0.86	+0.85	+0.90	+0.95	+0.99	+0.99	+0.99	+1.00	+0.99	+0.70
80.0 : 105.0	+0.91	+0.89	+0.88	+0.92	+0.97	+1.00	+1.00	+1.00	+0.99	+0.98	+0.67
65.0 : 80.0	+0.94	+0.91	+0.91	+0.94	+0.98	+1.00	+1.00	+1.00	+0.99	+0.97	+0.67
55.0 : 65.0	+0.94	+0.91	+0.91	+0.94	+0.99	+1.00	+1.00	+1.00	+0.99	+0.97	+0.66
45.0 : 55.0	+0.98	+0.96	+0.95	+0.98	+1.00	+0.99	+0.98	+0.97	+0.95	+0.93	+0.65
35.0 : 45.0	+1.00	+1.00	+0.99	+1.00	+0.98	+0.94	+0.94	+0.92	+0.90	+0.88	+0.62
25.0 : 35.0	+1.00	+1.00	+1.00	+0.99	+0.95	+0.91	+0.91	+0.88	+0.85	+0.84	+0.60
15.0 : 25.0	+1.00	+1.00	+1.00	+1.00	+0.96	+0.91	+0.91	+0.89	+0.86	+0.85	+0.60
0.0 : 15.0	+1.00	+1.00	+1.00	+1.00	+0.98	+0.94	+0.94	+0.91	+0.89	+0.87	+0.62

TABLE CLXX: Systematic correlation matrix for the W boson p_T [three-jet] distribution.

Analysis bin	0.0 : 15.0	15.0 : 30.0	30.0 : 45.0	45.0 : 60.0	60.0 : 75.0	75.0 : 90.0	90.0 : 115.0	115.0 : 150.0	150.0 : 250.0
150.0 : 250.0	+0.76	+0.77	+0.78	+0.79	+0.80	+0.82	+0.84	+0.88	+1.00
115.0 : 150.0	+0.93	+0.94	+0.96	+0.97	+0.97	+0.98	+0.99	+1.00	+0.88
90.0 : 115.0	+0.96	+0.97	+0.98	+0.99	+0.99	+1.00	+1.00	+0.99	+0.84
75.0 : 90.0	+0.98	+0.98	+0.99	+1.00	+1.00	+1.00	+1.00	+0.98	+0.82
60.0 : 75.0	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+0.99	+0.97	+0.80
45.0 : 60.0	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+0.99	+0.97	+0.79
30.0 : 45.0	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.96	+0.78
15.0 : 30.0	+1.00	+1.00	+1.00	+0.99	+0.99	+0.98	+0.97	+0.94	+0.77
0.0 : 15.0	+1.00	+1.00	+1.00	+0.99	+0.99	+0.98	+0.96	+0.93	+0.76

TABLE CLXXI: Systematic correlation matrix for the W boson p_T [four-jet] distribution.

Analysis bin	0.0 : 20.0	20.0 : 35.0	35.0 : 50.0	50.0 : 70.0	70.0 : 100.0	100.0 : 135.0	135.0 : 200.0
135.0 : 200.0	+0.73	+0.73	+0.74	+0.75	+0.78	+0.87	+1.00
100.0 : 135.0	+0.95	+0.96	+0.96	+0.97	+0.99	+1.00	+0.87
70.0 : 100.0	+0.99	+0.99	+0.99	+1.00	+1.00	+0.99	+0.78
50.0 : 70.0	+0.99	+1.00	+1.00	+1.00	+1.00	+0.97	+0.75
35.0 : 50.0	+1.00	+1.00	+1.00	+1.00	+0.99	+0.96	+0.74
20.0 : 35.0	+1.00	+1.00	+1.00	+1.00	+0.99	+0.96	+0.73
0.0 : 20.0	+1.00	+1.00	+1.00	+0.99	+0.99	+0.95	+0.73

TABLE CLXXII: Systematic correlation matrix for the dijet p_T [two-jet] distribution.

Analysis bin	0.0 : 10.0	10.0 : 20.0	20.0 : 30.0	30.0 : 40.0	40.0 : 50.0	50.0 : 65.0	65.0 : 80.0	80.0 : 100.0	100.0 : 120.0	120.0 : 145.0	145.0 : 175.0	175.0 : 210.0	210.0 : 260.0	260.0 : 350.0
260.0 : 350.0	+0.23	+0.23	+0.23	+0.23	+0.23	+0.24	+0.25	+0.27	+0.29	+0.31	+0.36	+0.47	+0.77	+1.00
210.0 : 260.0	+0.68	+0.68	+0.69	+0.69	+0.69	+0.71	+0.75	+0.79	+0.82	+0.84	+0.87	+0.92	+1.00	+0.77
175.0 : 210.0	+0.81	+0.82	+0.82	+0.82	+0.83	+0.85	+0.90	+0.94	+0.97	+0.98	+0.99	+1.00	+0.92	+0.47
145.0 : 175.0	+0.84	+0.84	+0.84	+0.84	+0.85	+0.87	+0.92	+0.96	+0.99	+1.00	+1.00	+0.99	+0.87	+0.36
120.0 : 145.0	+0.86	+0.86	+0.86	+0.86	+0.87	+0.90	+0.94	+0.98	+1.00	+1.00	+1.00	+0.98	+0.84	+0.31
100.0 : 120.0	+0.90	+0.90	+0.90	+0.90	+0.91	+0.93	+0.96	+0.99	+1.00	+1.00	+0.99	+0.97	+0.82	+0.29
80.0 : 100.0	+0.94	+0.95	+0.95	+0.95	+0.95	+0.97	+0.99	+1.00	+0.99	+0.98	+0.96	+0.94	+0.79	+0.27
65.0 : 80.0	+0.98	+0.98	+0.98	+0.98	+0.98	+0.99	+1.00	+0.99	+0.96	+0.94	+0.92	+0.90	+0.75	+0.25
50.0 : 65.0	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.97	+0.93	+0.90	+0.87	+0.85	+0.71	+0.24
40.0 : 50.0	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.98	+0.95	+0.91	+0.87	+0.85	+0.83	+0.69	+0.23
30.0 : 40.0	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.98	+0.95	+0.90	+0.86	+0.84	+0.82	+0.69	+0.23
20.0 : 30.0	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.98	+0.95	+0.90	+0.86	+0.84	+0.82	+0.69	+0.23
10.0 : 20.0	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.98	+0.95	+0.90	+0.86	+0.84	+0.82	+0.68	+0.23
0.0 : 10.0	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.98	+0.94	+0.90	+0.86	+0.84	+0.81	+0.68	+0.23

TABLE CLXXIII: Systematic correlation matrix for the dijet p_T [three-jet] distribution.

Analysis bin	0.0 : 15.0	15.0 : 30.0	30.0 : 45.0	45.0 : 65.0	65.0 : 85.0	85.0 : 110.0	110.0 : 140.0	140.0 : 175.0	175.0 : 210.0	210.0 : 280.0
210.0 : 280.0	+0.47	+0.47	+0.47	+0.48	+0.49	+0.50	+0.54	+0.62	+0.81	+1.00
175.0 : 210.0	+0.87	+0.87	+0.88	+0.89	+0.90	+0.91	+0.93	+0.96	+1.00	+0.81
140.0 : 175.0	+0.95	+0.96	+0.96	+0.97	+0.98	+0.98	+0.99	+1.00	+0.96	+0.62
110.0 : 140.0	+0.98	+0.98	+0.98	+0.99	+0.99	+1.00	+1.00	+0.99	+0.93	+0.54
85.0 : 110.0	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+0.98	+0.91	+0.50
65.0 : 85.0	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.90	+0.49
45.0 : 65.0	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.97	+0.89	+0.48
30.0 : 45.0	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.96	+0.88	+0.47
15.0 : 30.0	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.96	+0.87	+0.47
0.0 : 15.0	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.98	+0.95	+0.87	+0.47

TABLE CLXXIV: Systematic correlation matrix for the dijet invariant mass [two-jet] distribution.

Analysis bin	20.0 : 30.0	30.0 : 40.0	40.0 : 50.0	50.0 : 60.0	60.0 : 80.0	80.0 : 100.0	100.0 : 120.0	120.0 : 145.0	145.0 : 175.0	175.0 : 210.0	210.0 : 250.0	250.0 : 300.0	300.0 : 375.0
300.0 : 375.0	+0.89	+0.90	+0.90	+0.91	+0.92	+0.94	+0.96	+0.97	+0.97	+0.98	+0.99	+1.00	+1.00
250.0 : 300.0	+0.91	+0.92	+0.92	+0.92	+0.94	+0.96	+0.97	+0.98	+0.98	+0.99	+1.00	+1.00	+1.00
210.0 : 250.0	+0.93	+0.94	+0.94	+0.94	+0.96	+0.97	+0.98	+0.99	+0.99	+1.00	+1.00	+1.00	+0.99
175.0 : 210.0	+0.95	+0.95	+0.96	+0.96	+0.97	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98
145.0 : 175.0	+0.97	+0.97	+0.97	+0.97	+0.98	+0.99	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.97
120.0 : 145.0	+0.97	+0.98	+0.98	+0.98	+0.99	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.97
100.0 : 120.0	+0.98	+0.98	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.97	+0.96
80.0 : 100.0	+0.99	+0.99	+0.99	+0.99	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.97	+0.96	+0.94
60.0 : 80.0	+1.00	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.98	+0.97	+0.96	+0.94	+0.92
50.0 : 60.0	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.98	+0.97	+0.96	+0.94	+0.92	+0.91
40.0 : 50.0	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.99	+0.98	+0.97	+0.96	+0.94	+0.92	+0.90
30.0 : 40.0	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.98	+0.97	+0.95	+0.94	+0.92	+0.90
20.0 : 30.0	+1.00	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.97	+0.97	+0.95	+0.93	+0.91	+0.89

TABLE CLXXV: Systematic correlation matrix for the dijet invariant mass [three-jet] distribution.

Analysis bin	30.0 : 45.0	45.0 : 65.0	65.0 : 85.0	85.0 : 110.0	110.0 : 140.0	140.0 : 175.0	175.0 : 210.0	210.0 : 260.0	260.0 : 330.0
260.0 : 330.0	+0.92	+0.93	+0.94	+0.95	+0.97	+0.98	+0.99	+0.99	+1.00
210.0 : 260.0	+0.93	+0.94	+0.95	+0.97	+0.98	+0.99	+1.00	+1.00	+0.99
175.0 : 210.0	+0.95	+0.96	+0.97	+0.98	+0.99	+1.00	+1.00	+1.00	+0.99
140.0 : 175.0	+0.96	+0.97	+0.98	+0.99	+1.00	+1.00	+1.00	+0.99	+0.98
110.0 : 140.0	+0.98	+0.99	+0.99	+1.00	+1.00	+1.00	+0.99	+0.98	+0.97
85.0 : 110.0	+0.99	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.97	+0.95
65.0 : 85.0	+1.00	+1.00	+1.00	+1.00	+0.99	+0.98	+0.97	+0.95	+0.94
45.0 : 65.0	+1.00	+1.00	+1.00	+1.00	+0.99	+0.97	+0.96	+0.94	+0.93
30.0 : 45.0	+1.00	+1.00	+1.00	+0.99	+0.98	+0.96	+0.95	+0.93	+0.92

TABLE CLXXVI: Systematic correlation matrix for the H_T [one-jet] distribution.

Analysis bin	100.0 : 120.0	120.0 : 140.0	140.0 : 170.0	170.0 : 200.0	200.0 : 245.0	245.0 : 300.0	300.0 : 360.0	360.0 : 470.0
360.0 : 470.0	+0.76	+0.89	+0.93	+0.94	+0.96	+0.98	+0.99	+1.00
300.0 : 360.0	+0.74	+0.93	+0.94	+0.95	+0.98	+1.00	+1.00	+0.99
245.0 : 300.0	+0.76	+0.94	+0.96	+0.97	+0.99	+1.00	+1.00	+0.98
200.0 : 245.0	+0.80	+0.95	+0.98	+0.99	+1.00	+0.99	+0.98	+0.96
170.0 : 200.0	+0.88	+0.91	+1.00	+1.00	+0.99	+0.97	+0.95	+0.94
140.0 : 170.0	+0.91	+0.88	+1.00	+1.00	+0.98	+0.96	+0.94	+0.93
120.0 : 140.0	+0.61	+1.00	+0.88	+0.91	+0.95	+0.94	+0.93	+0.89
100.0 : 120.0	+1.00	+0.61	+0.91	+0.88	+0.80	+0.76	+0.74	+0.76

TABLE CLXXVII: Systematic correlation matrix for the H_T [two-jet] distribution.

Analysis bin	120.0 : 135.0	135.0 : 155.0	155.0 : 185.0	185.0 : 230.0	230.0 : 280.0	280.0 : 340.0	340.0 : 390.0	390.0 : 460.0
390.0 : 460.0	+0.69	+0.77	+0.89	+0.94	+0.96	+0.98	+0.99	+1.00
340.0 : 390.0	+0.72	+0.80	+0.92	+0.97	+0.98	+1.00	+1.00	+0.99
280.0 : 340.0	+0.75	+0.83	+0.94	+0.99	+1.00	+1.00	+1.00	+0.98
230.0 : 280.0	+0.78	+0.86	+0.96	+1.00	+1.00	+1.00	+0.98	+0.96
185.0 : 230.0	+0.83	+0.89	+0.98	+1.00	+1.00	+0.99	+0.97	+0.94
155.0 : 185.0	+0.93	+0.97	+1.00	+0.98	+0.96	+0.94	+0.92	+0.89
135.0 : 155.0	+0.99	+1.00	+0.97	+0.89	+0.86	+0.83	+0.80	+0.77
120.0 : 135.0	+1.00	+0.99	+0.93	+0.83	+0.78	+0.75	+0.72	+0.69

TABLE CLXXVIII: Systematic correlation matrix for the H_T [three-jet] distribution.

Analysis bin	140.0 : 165.0	165.0 : 200.0	200.0 : 240.0	240.0 : 290.0	290.0 : 340.0	340.0 : 390.0	390.0 : 450.0
390.0 : 450.0	+0.72	+0.77	+0.83	+0.90	+0.95	+0.98	+1.00
340.0 : 390.0	+0.80	+0.84	+0.90	+0.96	+0.99	+1.00	+0.98
290.0 : 340.0	+0.87	+0.90	+0.95	+0.99	+1.00	+0.99	+0.95
240.0 : 290.0	+0.93	+0.96	+0.99	+1.00	+0.99	+0.96	+0.90
200.0 : 240.0	+0.98	+0.99	+1.00	+0.99	+0.95	+0.90	+0.83
165.0 : 200.0	+1.00	+1.00	+0.99	+0.96	+0.90	+0.84	+0.77
140.0 : 165.0	+1.00	+1.00	+0.98	+0.93	+0.87	+0.80	+0.72

TABLE CLXXIX: Systematic correlation matrix for the H_T [four-jet] distribution.

Analysis bin	160.0 : 200.0	200.0 : 250.0	250.0 : 310.0	310.0 : 370.0	370.0 : 450.0
370.0 : 450.0	+0.74	+0.80	+0.88	+0.94	+1.00
310.0 : 370.0	+0.89	+0.94	+0.99	+1.00	+0.94
250.0 : 310.0	+0.95	+0.98	+1.00	+0.99	+0.88
200.0 : 250.0	+0.99	+1.00	+0.98	+0.94	+0.80
160.0 : 200.0	+1.00	+0.99	+0.95	+0.89	+0.74