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Erratum: Measurement of the inclusive jet cross section at the Fermilab Tevatron $p\bar{p}$ collider using a cone-based jet algorithm [Phys. Rev. D 78, 052006 (2008)]

T. Aaltonen, J. Adelman, T. Akimoto, M. G. Albrow, B. Álvarez González, S. Amerio, D. Amidei, A. Anastassov, A. Annovi, J. Antos, G. Apollinari, A. Apresyan, T. Arisawa, A. Artikov, W. Ashmanskas, A. Attal, A. Aurisano, F. Azfar, P. Azzurri, W. Badgett, A. Barbaro-Galtieri, V. E. Barnes, B. A. Barnett, V. Bartsch, G. Bauer, P.-H. Beauchemin, F. Bedeschi, P. Bednar, D. Beecher, S. Behari, G. Bellettini, J. Bellinger, D. Benjamin, A. Beretvas, J. Beringer, A. Bhatti, M. Binkley, D. Bisello, I. Bizjak, R. E. Blair, C. Blocker, B. Blumenfeld, A. Bocci, A. Bodek, V. Boisvert, G. Bolla, D. Bortoletto, J. Boudreau, A. Boveia, B. Brau, A. Bridgeman, L. Brigliadori, C. Bromberg, E. Brubaker, J. Budagov, H. S. Budd, S. Budd, K. Burkett, G. Busetto, P. Bussey, A. Buzatu, K. L. Byrum, S. Cabrera, C. Calancha, M. Campanelli, M. Campbell, F. Canelli, A. Canepa, D. Carlsmith, R. Carosi, S. Carrillo, S. Carron, B. Casal, M. Casarsa, A. Castro, P. Catastini, D. Cauz, V. Cavaliere, M. Cavalli-Sforza, A. Cerri, L. Cerrito, S. H. Chang, Y. C. Chen, M. Chertok, G. Chiarelli, G. Chlachidze, F. Chlebana, K. Cho, D. Chokheli, J. P. Chou, G. Choudalakis, S. H. Chuang, K. Chung, W. H. Chung, Y. S. Chung, C. I. Ciobanu, M. A. Ciocci, A. Clark, D. Clark, G. Compostella, M. E. Convery, J. Conway, K. Copic, M. Cordelli, G. Cortiana, D. J. Cox, F. Crescioli, C. Cuenca Almenar, J. Cuevas, R. Culbertson, J. C. Cully, D. Dagenhart, M. Datta, T. Davies, P. de Barbaro, S. De Cecco, A. Deisher, G. De Lorenzo, M. Dell'Orso, C. Deluca, L. Demortier, J. Deng, M. Deninno, P. F. Derwent, G. P. di Giovanni, C. Dionisi, B. Di Ruzza, J. R. Dittmann, M. D'Onofrio, S. Donati, P. Dong, J. Donini, T. Dorigo, S. Dube, J. Efron, A. Elagin, R. Erbacher, D. Errede, S. Errede, R. Eusebi, H. C. Fang, S. Farrington, W. T. Fedorko, R. G. Feild, M. Feindt, J. P. Fernandez, C. Ferrazza, R. Field, G. Flanagan, R. Forrest, M. Franklin, J. C. Freeman, I. Furic, M. Gallinaro, J. Galyardt, F. Garberson, J. E. Garcia, A. F. Garfinkel, K. Genser, H. Gerberich, D. Gerdes, A. Gessler, S. Giagu, V. Giakoumopoulou, P. Giannetti, K. Gibson, J. L. Gimmell, C. M. Ginsburg, N. Giokaris, M. Giordani, P. Giromini, M. Giunta, G. Giurgiu, V. Glagolev, D. Glenzinski, M. Gold, N. Goldschmidt, A. Golossanov, G. Gomez, G. Gomez-Ceballos, M. Goncharov, O. González, I. Gorelov, A. T. Goshaw, K. Goulianos, A. Gresele, S. Grinstein, C. Grosso-Pilcher, R. C. Group, U. Grundler, J. Guimaraes da Costa, Z. Gunay-Unalan, C. Haber, K. Hahn, S. R. Hahn, E. Halkiadakis, B.-Y. Han, J. Y. Han, R. Handler, F. Happacher, K. Hara, D. Hare, M. Hare, S. Harper, R. F. Harr, R. M. Harris, M. Hartz, K. Hatakeyama, J. Hauser, C. Hays, M. Heck, A. Heijboer, B. Heinemann, J. Heinrich, C. Henderson, M. Herndon, J. Heuser, S. Hewamanage, D. Hidas, C. S. Hill, D. Hirschbuehl, A. Hocker, S. Hou, M. Houlden, S.-C. Hsu, B. T. Huffman, R. E. Hughes, U. Husemann, J. Huston, J. Incandela, G. Introzzi, M. Iori, A. Ivanov, E. James, B. Jayatilaka, E. J. Jeon, M. K. Jha, S. Jindariani, W. Johnson, M. Jones, K. K. Joo, S. Y. Jun, J. E. Jung, T. R. Junk, T. Kamon, D. Kar, P. E. Karchin, Y. Kato, R. Kephart, J. Keung, V. Khotilovich, B. Kilminster, D. H. Kim, H. S. Kim, J. E. Kim, M. J. Kim, S. B. Kim, S. H. Kim, Y. K. Kim, N. Kimura, L. Kirsch, S. Klimenko, B. Knuteson, B. R. Ko, S. A. Koay, K. Kondo, D. J. Kong, J. Konigsberg, A. Korytov, A. V. Kotwal, M. Kreps, J. Kroll, D. Krop, N. Krumnack, M. Kruse, V. Krutelyov, T. Kubo, T. Kuhr, N. P. Kulkarni, M. Kurata, Y. Kusakabe, S. Kwang, A. T. Laasanen, S. Lami, S. Lammel, M. Lancaster, R. L. Lander, K. Lannon, A. Lath, G. Latino, I. Lazzizzera, T. LeCompte, E. Lee, S. W. Lee, S. Leone, J. D. Lewis, C. S. Lin, J. Linacre, M. Lindgren, E. Lipeles, A. Lister, D. O. Litvintsev, C. Liu, T. Liu, N. S. Lockyer, A. Loginov, M. Loreti, L. Lovas, R.-S. Lu, D. Lucchesi, J. Lueck, C. Luci, P. Lujan, P. Lukens, G. Lungu, L. Lyons, J. Lys, R. Lysak, E. Lytken, P. Mack, D. MacQueen, R. Madrak, K. Maeshima, K. Makhoul, T. Maki, P. Maksimovic, S. Malde, S. Malik, G. Manca, A. Manousakis-Katsikakis, F. Margaroli, C. Marino, C. P. Marino, A. Martin, V. Martin, M. Martínez, R. Martínez-Ballarín, T. Maruyama, P. Mastrandrea, T. Masubuchi, M. E. Mattson, P. Mazzanti, K. S. McFarland, P. McIntyre, R. McNulty, A. Mehta, P. Mehtala, A. Menzione, P. Merkel, C. Mesropian, T. Miao, N. Miladinovic, R. Miller, C. Mills, M. Milnik, A. Mitra, G. Mitselmakher, H. Miyake, N. Moggi, C. S. Moon, R. Moore, M. J. Morello, J. Morlok, P. Movilla Fernandez, J. Mülmenstädt, A. Mukherjee, Th. Muller, R. Mumford, P. Murat, M. Mussini, J. Nachtman, Y. Nagai, A. Nagano, J. Naganoma, K. Nakamura, I. Nakano, A. Napier, V. Necula, C. Neu, M. S. Neubauer, J. Nielsen, L. Nodulman, M. Norman, O. Norniella, E. Nurse, L. Oakes, S. H. Oh, Y. D. Oh, I. Oksuzian, T. Okusawa, R. Orava, K. Osterberg, S. Pagan Griso, C. Pagliarone, E. Palencia, V. Papadimitriou, A. Papaikonomou, A. A. Paramonov, B. Parks, S. Pashapour, J. Patrick, G. Pauletta, M. Paulini, C. Paus, D. E. Pellett, A. Penzo, T. J. Phillips, G. Piacentino, E. Pianori, L. Pinera, K. Pitts, C. Plager, L. Pondrom, O. Poukhov, N. Pounder, F. Prakoshyn, A. Pronko, J. Proudfoot, F. Ptohos, E. Pueschel, G. Punzi, J. Pursley, J. Rademacker, A. Rahaman, V. Ramakrishnan, N. Ranjan, I. Redondo, B. Reisert, V. Rekovic, P. Renton, M. Rescigno, S. Richter, F. Rimondi, L. Ristori, A. Robson, T. Rodrigo, T. Rodriguez, E. Rogers, S. Rolli, R. Roser, M. Rossi, R. Rossin, P. Roy, A. Ruiz, J. Russ, V. Rusu, H. Saarikko, A. Safonov, W. K. Sakumoto, O. Saltó, L. Santi, S. Sarkar, L. Sartori, K. Sato, A. Savoy-Navarro,

T. Scheidle, P. Schlabach, A. Schmidt, E. E. Schmidt, M. A. Schmidt, M. P. Schmidt, M. Schmitt, T. Schwarz, L. Scodellaro, A. L. Scott, A. Scribano, F. Scuri, A. Sedov, S. Seidel, Y. Seiya, A. Semenov, L. Sexton-Kennedy, A. Sfyrla, S. Z. Shalhout, T. Shears, P. F. Shepard, D. Sherman, M. Shimojima, S. Shiraishi, M. Shochet, Y. Shon, I. Shreyber, A. Sidoti, P. Sinervo, A. Sisakyan, A. J. Slaughter, J. Slaunwhite, K. Sliwa, J. R. Smith, F. D. Snider, R. Snihur, A. Soha, S. Somalwar, V. Sorin, J. Spalding, T. Spreitzer, P. Squillacioti, M. Stanitzki, R. St. Denis, B. Stelzer, O. Stelzer-Chilton, D. Stentz, J. Strologas, D. Stuart, J. S. Suh, A. Sukhanov, I. Suslov, T. Suzuki, A. Taffard, R. Takashima, Y. Takeuchi, R. Tanaka, M. Tecchio, P. K. Teng, K. Terashi, J. Thom, A. S. Thompson, G. A. Thompson, E. Thomson, P. Tipton, V. Tiwari, S. Tkaczyk, D. Toback, S. Tokar, K. Tollefson, T. Tomura, D. Tonelli, S. Torre, D. Torretta, P. Totaro, S. Tourneur, Y. Tu, N. Turini, F. Ukegawa, S. Vallecorsa, N. van Remortel, A. Varganov, E. Vataga, F. Vázquez, G. Velev, C. Vellidis, V. Veszpremi, M. Vidal, R. Vidal, I. Vila, R. Vilar, T. Vine, M. Vogel, I. Volobouev, G. Volpi, F. Würthwein, P. Wagner, R. G. Wagner, R. L. Wagner, J. Wagner-Kuhr, W. Wagner, T. Wakisaka, R. Wallny, S. M. Wang, A. Warburton, D. Waters, M. Weinberger, W. C. Wester III, B. Whitehouse, D. Whiteson, A. B. Wicklund, E. Wicklund, G. Williams, H. H. Williams, P. Wilson, B. L. Winer, P. Wittich, S. Wolbers, C. Wolfe, T. Wright, X. Wu, S. M. Wynne, A. Yagil, K. Yamamoto, J. Yamaoka, U. K. Yang, Y. C. Yang, W. M. Yao, G. P. Yeh, J. Yoh, K. Yorita, T. Yoshida, G. B. Yu, I. Yu, S. S. Yu, J. C. Yun, L. Zanello, A. Zanetti, I. Zaw, X. Zhang, Y. Zheng, and S. Zucchelli

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The measurement of the inclusive jet cross section using a cone-based jet algorithm in our recent article [1] requires corrections in Tables VI and VIII–XII. In Table VI, the columns for the systematic uncertainties from the unfolding correction, p_T-spectrum modeling, and jet energy resolution modeling were mislabeled. Tables VIII–XII did not use the final unfolding corrections shown in Fig. 10 which are obtained as described in Sec. V C. Miscalculations in error propagation also affected Tables VIII–XII. The corrected tables are shown in Tables I, II, III, IV, V, and VI of this erratum. Figures 13 and 15–17 of our article [1] are also affected by the same issues; however, the corrections are found to be insignificant. The corrected figures can be found in Ref. [2].

It should be noted that the comparisons of data and theoretical predictions presented in Sec. VIII used the correct numbers and thus the conclusions of the article were not affected by these corrections.

TABLE I. Systematic uncertainties on the measured inclusive jet differential cross sections from different sources as a function of p_T for jets in the region $1.1 < |y| < 1.6$.

	Systematic uncertainties [%] $(1.1 < \|y\| < 1.6)$						
		Dijet p_T balance					
p_T (GeV/c)	Jet energy scale	Nominal	Additional	Pileup	Unfolding	p_T spectra	Resolution
62.0–72.0	$^{+8.5}_{-7.8}$	$^{+2.4}_{-2.0}$	...	$^{+2.1}_{-1.9}$	± 5.5	± 0.2	$^{+3.0}_{-2.9}$
72.0–83.0	$^{+9.0}_{-8.4}$	$^{+2.6}_{-2.1}$	...	$^{+1.9}_{-1.8}$	± 5.5	± 0.3	$^{+2.9}_{-2.9}$
83.0–96.0	$^{+9.6}_{-9.0}$	$^{+2.8}_{-2.0}$	...	$^{+1.8}_{-1.7}$	± 5.4	± 0.4	$^{+2.9}_{-2.8}$
96.0–110.0	$^{+10.5}_{-9.8}$	$^{+2.4}_{-2.3}$	...	$^{+1.7}_{-1.6}$	± 5.3	± 0.4	$^{+2.9}_{-2.9}$
110.0–127.0	$^{+11.6}_{-10.8}$	$^{+2.5}_{-2.2}$	...	$^{+1.6}_{-1.5}$	± 5.2	± 0.5	$^{+3.0}_{-3.0}$
127.0–146.0	$^{+13.1}_{-12.0}$	$^{+3.4}_{-2.7}$	...	$^{+1.5}_{-1.5}$	± 5.1	± 0.6	$^{+3.2}_{-3.2}$
146.0–169.0	$^{+15.2}_{-13.5}$	$^{+3.5}_{-2.6}$	...	$^{+1.5}_{-1.4}$	± 4.9	± 0.6	$^{+3.7}_{-3.6}$
169.0–195.0	$^{+18.0}_{-15.4}$	$^{+4.4}_{-3.2}$	...	$^{+1.4}_{-1.4}$	± 4.8	± 0.8	$^{+4.4}_{-4.3}$
195.0–224.0	$^{+21.7}_{-17.8}$	$^{+4.5}_{-3.6}$	$^{+2.3}_{-2.0}$	$^{+1.4}_{-1.3}$	± 4.6	± 0.2	$^{+5.5}_{-5.2}$
224.0–259.0	$^{+26.6}_{-20.7}$	$^{+5.4}_{-4.0}$	$^{+5.4}_{-4.5}$	$^{+1.4}_{-1.3}$	± 4.4	± 1.1	$^{+7.1}_{-6.6}$
259.0–298.0	$^{+33.1}_{-24.6}$	$^{+5.9}_{-5.0}$	$^{+9.4}_{-8.7}$	$^{+1.4}_{-1.3}$	± 4.2	± 0.2	$^{+9.5}_{-8.6}$
298.0–344.0	$^{+41.8}_{-29.4}$	$^{+8.0}_{-5.8}$	$^{+16.2}_{-14.5}$	$^{+1.4}_{-1.3}$	± 4.0	± 3.3	$^{+12.9}_{-11.4}$
344.0–396.0	$^{+53.4}_{-35.6}$	$^{+9.8}_{-6.5}$	$^{+29.6}_{-21.8}$	$^{+1.4}_{-1.3}$	± 3.8	± 10.2	$^{+17.7}_{-15.3}$
396.0–457.0	$^{+68.8}_{-43.5}$	$^{+12.4}_{-7.6}$	$^{+52.2}_{-26.5}$	$^{+1.4}_{-1.2}$	± 3.5	± 21.7	$^{+24.4}_{-20.7}$

TABLE II. Measured inclusive jet cross sections as a function of p_T for jets in the region $|y| < 0.1$ together with the statistical (stat) and systematic (sys) uncertainties. The bin-by-bin parton-to-hadron-level ($C_{p\to h}$) corrections are also shown.

$\lvert y\rvert < 0.1$		
p_T (GeV/c)	$\sigma \pm$ (stat) $\pm$ (sys) [nb/(GeV/c)]	$C_{p\to h}$
62–72	$(6.68 \pm 0.12^{+0.61}_{-0.58}) \times 10^{0}$	1.072 ± 0.107
72–83	$(2.95 \pm 0.06^{+0.28}_{-0.27}) \times 10^{0}$	1.054 ± 0.086
83–96	$(1.21 \pm 0.04^{+0.12}_{-0.11}) \times 10^{0}$	1.040 ± 0.069
96–110	$(5.44 \pm 0.24^{+0.57}_{-0.54}) \times 10^{-1}$	1.028 ± 0.055
110–127	$(2.28 \pm 0.03^{+0.25}_{-0.23}) \times 10^{-1}$	1.020 ± 0.043
127–146	$(9.18 \pm 0.14^{+1.11}_{-1.02}) \times 10^{-2}$	1.013 ± 0.033
146–169	$(3.76 \pm 0.05^{+0.49}_{-0.44}) \times 10^{-2}$	1.007 ± 0.024
169–195	$(1.38 \pm 0.03^{+0.20}_{-0.18}) \times 10^{-2}$	1.003 ± 0.017
195–224	$(5.30 \pm 0.28^{+0.83}_{-0.73}) \times 10^{-3}$	1.000 ± 0.012
224–259	$(1.84 \pm 0.04^{+0.32}_{-0.28}) \times 10^{-3}$	0.998 ± 0.008
259–298	$(5.93 \pm 0.11^{+1.14}_{-0.99}) \times 10^{-4}$	0.996 ± 0.004
298–344	$(1.75 \pm 0.06^{+0.38}_{-0.33}) \times 10^{-4}$	0.996 ± 0.002
344–396	$(5.06 \pm 0.26^{+1.22}_{-1.04}) \times 10^{-5}$	0.996 ± 0.000
396–457	$(1.24 \pm 0.11^{+0.34}_{-0.29}) \times 10^{-5}$	0.996 ± 0.001
457–527	$(2.81 \pm 0.53^{+0.92}_{-0.79}) \times 10^{-6}$	0.997 ± 0.002
527–700	$(1.81 \pm 0.81^{+0.78}_{-0.68}) \times 10^{-7}$	1.000 ± 0.001

TABLE III. Measured inclusive jet cross sections as a function of p_T for jets in the region $0.1 < |y| < 0.7$ together with the statistical (stat) and systematic (sys) uncertainties. The bin-by-bin parton-to-hadron-level ($C_{p\to h}$) corrections are also shown.

$0.1 < \lvert y\rvert < 0.7$		
p_T (GeV/c)	$\sigma \pm$ (stat) $\pm$ (sys) [nb/(GeV/c)]	$C_{p\to h}$
62–72	$(6.28 \pm 0.04^{+0.59}_{-0.56}) \times 10^{0}$	1.072 ± 0.108
72–83	$(2.70 \pm 0.02^{+0.26}_{-0.25}) \times 10^{0}$	1.055 ± 0.088
83–96	$(1.15 \pm 0.01^{+0.11}_{-0.11}) \times 10^{0}$	1.041 ± 0.071
96–110	$(4.88 \pm 0.03^{+0.51}_{-0.48}) \times 10^{-1}$	1.030 ± 0.057
110–127	$(2.07 \pm 0.01^{+0.22}_{-0.21}) \times 10^{-1}$	1.022 ± 0.045
127–146	$(8.50 \pm 0.04^{+0.98}_{-0.91}) \times 10^{-2}$	1.015 ± 0.035
146–169	$(3.30 \pm 0.01^{+0.41}_{-0.38}) \times 10^{-2}$	1.010 ± 0.027
169–195	$(1.24 \pm 0.01^{+0.17}_{-0.15}) \times 10^{-2}$	1.006 ± 0.020
195–224	$(4.55 \pm 0.05^{+0.67}_{-0.61}) \times 10^{-3}$	1.003 ± 0.014
224–259	$(1.56 \pm 0.01^{+0.25}_{-0.23}) \times 10^{-3}$	1.002 ± 0.010
259–298	$(4.94 \pm 0.06^{+0.91}_{-0.80}) \times 10^{-4}$	1.001 ± 0.006
298–344	$(1.42 \pm 0.02^{+0.30}_{-0.26}) \times 10^{-4}$	1.000 ± 0.003
344–396	$(3.53 \pm 0.08^{+0.85}_{-0.73}) \times 10^{-5}$	1.001 ± 0.001
396–457	$(6.87 \pm 0.35^{+1.93}_{-1.64}) \times 10^{-6}$	1.001 ± 0.000
457–527	$(1.22 \pm 0.13^{+0.40}_{-0.34}) \times 10^{-6}$	1.003 ± 0.001
527–700	$(7.08 \pm 1.97^{+3.09}_{-2.54}) \times 10^{-8}$	1.005 ± 0.001

TABLE IV. Measured inclusive jet cross sections as a function of p_T for jets in the region $0.7 < |y| < 1.1$ together with the statistical (stat) and systematic (sys) uncertainties. The bin-by-bin parton-to-hadron-level ($C_{p\to h}$) corrections are also shown.

$0.7 < \lvert y\rvert < 1.1$		
p_T (GeV/c)	$\sigma \pm$ (stat) $\pm$ (sys) [nb/(GeV/c)]	$C_{p\to h}$
62–72	$(5.32 \pm 0.05^{+0.55}_{-0.51}) \times 10^{0}$	1.061 ± 0.098
72–83	$(2.32 \pm 0.02^{+0.24}_{-0.23}) \times 10^{0}$	1.048 ± 0.081
83–96	$(9.83 \pm 0.13^{+1.06}_{-0.98}) \times 10^{-1}$	1.038 ± 0.067
96–110	$(3.95 \pm 0.03^{+0.43}_{-0.41}) \times 10^{-1}$	1.031 ± 0.055
110–127	$(1.62 \pm 0.01^{+0.19}_{-0.17}) \times 10^{-1}$	1.024 ± 0.046
127–146	$(6.34 \pm 0.04^{+0.79}_{-0.73}) \times 10^{-2}$	1.019 ± 0.037
146–169	$(2.37 \pm 0.02^{+0.32}_{-0.29}) \times 10^{-2}$	1.015 ± 0.030
169–195	$(8.41 \pm 0.09^{+1.27}_{-1.15}) \times 10^{-3}$	1.012 ± 0.024
195–224	$(2.81 \pm 0.07^{+0.48}_{-0.43}) \times 10^{-3}$	1.010 ± 0.020
224–259	$(8.78 \pm 0.10^{+1.78}_{-1.52}) \times 10^{-4}$	1.008 ± 0.016
259–298	$(2.35 \pm 0.08^{+0.57}_{-0.47}) \times 10^{-4}$	1.007 ± 0.013
298–344	$(5.37 \pm 0.17^{+1.59}_{-1.28}) \times 10^{-5}$	1.007 ± 0.011
344–396	$(9.30 \pm 0.54^{+3.42}_{-2.67}) \times 10^{-6}$	1.006 ± 0.010
396–457	$(1.35 \pm 0.18^{+0.63}_{-0.48}) \times 10^{-6}$	1.007 ± 0.009
457–527	$(1.63 \pm 0.55^{+0.98}_{-0.72}) \times 10^{-7}$	1.007 ± 0.008

TABLE V. Measured inclusive jet cross sections as a function of p_T for jets in the region $1.1 < |y| < 1.6$ together with the statistical (stat) and systematic (sys) uncertainties. The bin-by-bin parton-to-hadron-level ($C_{p\to h}$) corrections are also shown.

$1.1 < \lvert y\rvert < 1.6$		
p_T (GeV/c)	$\sigma \pm$ (stat) $\pm$ (sys) [nb/(GeV/c)]	$C_{p\to h}$
62–72	$(4.57 \pm 0.04^{+0.50}_{-0.47}) \times 10^{0}$	1.058 ± 0.095
72–83	$(1.81 \pm 0.02^{+0.21}_{-0.19}) \times 10^{0}$	1.042 ± 0.076
83–96	$(7.39 \pm 0.09^{+0.88}_{-0.83}) \times 10^{-1}$	1.029 ± 0.059
96–110	$(2.97 \pm 0.05^{+0.37}_{-0.35}) \times 10^{-1}$	1.020 ± 0.046
110–127	$(1.13 \pm 0.01^{+0.15}_{-0.14}) \times 10^{-1}$	1.013 ± 0.035
127–146	$(4.09 \pm 0.03^{+0.61}_{-0.56}) \times 10^{-2}$	1.007 ± 0.025
146–169	$(1.38 \pm 0.01^{+0.23}_{-0.21}) \times 10^{-2}$	1.003 ± 0.017
169–195	$(4.13 \pm 0.06^{+0.82}_{-0.70}) \times 10^{-3}$	1.000 ± 0.011
195–224	$(1.15 \pm 0.01^{+0.27}_{-0.22}) \times 10^{-3}$	0.998 ± 0.006
224–259	$(2.66 \pm 0.07^{+0.77}_{-0.61}) \times 10^{-4}$	0.997 ± 0.002
259–298	$(5.07 \pm 0.56^{+1.85}_{-1.43}) \times 10^{-5}$	0.997 ± 0.001
298–344	$(8.19 \pm 0.52^{+3.90}_{-2.91}) \times 10^{-6}$	0.997 ± 0.003
344–396	$(9.36 \pm 1.53^{+6.10}_{-4.32}) \times 10^{-7}$	0.998 ± 0.005
396–457	$(6.67 \pm 3.40^{+6.21}_{-3.98}) \times 10^{-8}$	1.000 ± 0.005

TABLE VI. Measured inclusive jet cross sections as a function of p_T for jets in the region $1.6 < |y| < 2.1$ together with the statistical (stat) and systematic (sys) uncertainties. The bin-by-bin parton-to-hadron-level ($C_{p\to h}$) corrections are also shown.

$1.6 < \lvert y\rvert < 2.1$		
p_T (GeV/c)	$\sigma \pm$ (stat) $\pm$ (sys) [nb/(GeV/c)]	$C_{p\to h}$
62–72	$(2.66 \pm 0.03^{+0.31}_{-0.28}) \times 10^{0}$	1.038 ± 0.079
72–83	$(1.00 \pm 0.01^{+0.12}_{-0.11}) \times 10^{0}$	1.028 ± 0.062
83–96	$(3.64 \pm 0.06^{+0.49}_{-0.44}) \times 10^{-1}$	1.019 ± 0.048
96–110	$(1.27 \pm 0.01^{+0.19}_{-0.17}) \times 10^{-1}$	1.013 ± 0.038
110–127	$(4.12 \pm 0.04^{+0.70}_{-0.62}) \times 10^{-2}$	1.008 ± 0.030
127–146	$(1.15 \pm 0.01^{+0.23}_{-0.20}) \times 10^{-2}$	1.004 ± 0.024
146–169	$(2.78 \pm 0.07^{+0.69}_{-0.56}) \times 10^{-3}$	1.001 ± 0.021
169–195	$(5.44 \pm 0.10^{+1.72}_{-1.39}) \times 10^{-4}$	1.000 ± 0.019
195–224	$(7.89 \pm 0.69^{+3.24}_{-2.45}) \times 10^{-5}$	0.999 ± 0.019
224–259	$(8.41 \pm 0.61^{+4.69}_{-3.38}) \times 10^{-6}$	0.998 ± 0.019
259–298	$(5.08 \pm 1.39^{+3.74}_{-2.68}) \times 10^{-7}$	0.998 ± 0.021

[1] T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **78**, 052006 (2008).
[2] T. Aaltonen *et al.* (CDF Collaboration), arXiv:0807.2204.