Table 1: Heavy flavor muon double differential cross section in p+p collisions at 1.4 < |y| < 2.0.

$\overline{p_T}$	Ed^3p/dp^3	stat. uncertainty	sys. uncertainty
1.125	2.64e-04	9.06e-06	4.20e-05
1.375	8.38e-05	3.08e-06	1.35 e-05
1.625	3.18e-05	1.32e-07	5.15 e - 05
1.875	1.27e-05	4.92e-07	2.18e-06
2.215	5.61e-06	2.77e-07	9.59 e - 07
2.375	2.55e-06	1.64e-07	4.72e-07
2.625	1.24e-06	1.04e-07	2.23e-07
2.875	6.69e-07	6.81 e- 08	1.32e-07
3.250	2.83e-07	2.71e-08	5.46 e - 08
3.750	8.22e-08	1.36e-08	1.68e-08
4.500	2.05e-08	4.06e-09	4.26e-09
6.000	2.43e-09	6.89e-10	4.69e-10

Table 2: Heavy flavor muon invariant yield in 0–100% d + Au collisions at backward (South, -2.0 < y < -1.4) and forward (Nouth, 1.4 < y < 2.0) rapidity.

rapidity	p_T	$1/2\pi p_T \ d^2N/dp_T dy$	stat. uncertainty	sys. uncertainty
S	1.125	5.85564e-05	1.15771e-06	8.25817e-06
\mathbf{S}	1.375	2.28476e-05	3.84915 e-07	3.25932e-06
S	1.625	8.20331e-06	1.66305 e-07	1.16945e-06
S	1.875	3.82836e-06	5.84956e-08	5.60852e-07
S	2.125	1.66737e-06	3.16874e-08	2.44351e-07
\mathbf{S}	2.375	7.64873e-07	1.83467e-08	1.18019e-07
S	2.625	4.05252e-07	1.13032e-08	6.09591 e-08
S	2.875	1.89377e-07	7.36818e-09	3.09167e-08
S	3.250	7.22965e-08	2.86692e-09	1.19075e-08
S	3.750	2.27985e-08	1.42653e-09	3.88756e-09
S	4.500	5.18719e-09	4.15143e-10	9.07761e-10
S	6.000	4.15544e-10	6.37085e-11	7.58652e-11
N	1.125	3.14489e-05	1.1017e-06	4.53737e-06
N	1.375	1.27794e-05	3.54128e-07	1.8029e-06
N	1.625	4.90297e-06	1.43719e-07	6.90111e-07
N	1.875	2.28947e-06	4.95782e-08	3.32375e-07
N	2.125	9.8874e-07	2.62532e-08	1.44119e-07
N	2.375	4.58891e-07	1.53933e-08	7.11785e-08
N	2.625	2.36166e-07	9.33461e-09	3.5822 e-08
N	2.875	1.1024e-07	6.02676e-09	1.84627e-08
N	3.250	4.28042e-08	2.33086e-09	7.26925e-09
N	3.750	1.51117e-08	1.19553e-09	2.60917e-09
N	4.500	3.27017e-09	3.45911e-10	5.99151e-10
N	6.000	2.64546e-10	5.7876e-11	5.22727e-11

Table 3: Heavy flavor muon invariant yield in 0–20% d+ Au collisions at backward (South, -2.0 < y < -1.4) and forward (Nouth, 1.4 < y < 2.0) rapidity.

rapidity	p_T	$1/2\pi p_T \ d^2N/dp_T dy$	stat. uncertainty	sys. uncertainty
S	1.125	0.0001425	2.50827e-06	1.99238e-05
\mathbf{S}	1.375	5.48111e-05	8.934e-07	7.64606e-06
S	1.625	2.04746e-05	3.99783e-07	2.85906e-06
S	1.875	8.78952e-06	1.49125e-07	1.27104e-06
S	2.125	3.71656e-06	8.45344e-08	5.38384e-07
\mathbf{S}	2.375	1.66985e-06	5.12055e-08	2.56021e-07
S	2.625	8.27778e-07	3.23575 e-08	1.24852e-07
S	2.875	4.16982e-07	2.14231e-08	6.75522 e-08
S	3.250	1.46286e-07	8.35686e-09	2.43859e-08
S	3.750	4.18405e-08	4.29287e-09	7.39828e-09
S	4.500	1.11295e-08	1.268e-09	1.94945e-09
S	6.000	8.64418e-10	1.94654e-10	1.60586e-10
N	1.125	5.10828e-05	1.99114e-06	7.46956e-06
N	1.375	2.01546e-05	6.73908e-07	2.89776e-06
N	1.625	7.9045e-06	2.79881e-07	1.12852e-06
N	1.875	3.82454 e-06	9.93572e-08	5.61763e-07
N	2.125	1.72278e-06	5.51845e-08	2.52457e-07
N	2.375	7.68564e-07	3.29704 e-08	1.20829e-07
N	2.625	4.08919e-07	2.0662e-08	6.25645 e-08
N	2.875	1.87682e-07	1.35011e-08	3.21817e-08
N	3.250	7.88383e-08	5.31613e-09	1.32883e-08
N	3.750	2.7043e-08	2.67849e-09	4.67492e-09
N	4.500	6.72032e-09	8.67691e-10	1.1914e-09
N	6.000	4.39216e-10	1.39246e-10	8.85173e-11

Table 4: Heavy flavor muon invariant yield in 20–40% d+ Au collisions at backward (South, -2.0 < y < -1.4) and forward (Nouth, 1.4 < y < 2.0) rapidity.

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$. 1.,		1/0 19 37 / 1 1		
S 1.375 3.11564e-05 6.36786e-07 4.50221e-06 S 1.625 1.1703e-05 2.89775e-07 1.67385e-06 S 1.875 5.28896e-06 1.10252e-07 7.84392e-07 S 2.125 2.30829e-06 6.43388e-08 3.40395e-07 S 2.375 1.06457e-06 3.88081e-08 1.64688e-07 S 2.625 5.93122e-07 2.52695e-08 8.92132e-08 S 2.875 2.45373e-07 1.6632e-08 4.09918e-08 S 3.250 1.05653e-07 6.64511e-09 1.73069e-08 S 3.750 3.32096e-08 3.3888e-09 5.60431e-09 S 4.500 6.92887e-09 9.96432e-10 1.22259e-09 S 6.000 4.22601e-10 1.57461e-10 8.41146e-11 N 1.125 4.41814e-05 1.58397e-06 6.48953e-06 N 1.375 1.72475e-05 5.28496e-07 2.4794e-06 N 1.625 7.00586e-06 2.22086e-07 9.91077e-07 N 2.875 6.62288e-07 2.76857e-08	rapidity	p_T	$1/2\pi p_T \ d^2N/dp_T dy$	stat. uncertainty	sys. uncertainty
S 1.625 1.1703e-05 2.89775e-07 1.67385e-06 S 1.875 5.28896e-06 1.10252e-07 7.84392e-07 S 2.125 2.30829e-06 6.43388e-08 3.40395e-07 S 2.375 1.06457e-06 3.88081e-08 1.64688e-07 S 2.625 5.93122e-07 2.52695e-08 8.92132e-08 S 2.875 2.45373e-07 1.6632e-08 4.09918e-08 S 3.250 1.05653e-07 6.64511e-09 1.73069e-08 S 3.750 3.32096e-08 3.3888e-09 5.60431e-09 S 4.500 6.92887e-09 9.96432e-10 1.22259e-09 S 6.000 4.22601e-10 1.57461e-10 8.41146e-11 N 1.125 4.41814e-05 1.58397e-06 6.48953e-06 N 1.375 1.72475e-05 5.28496e-07 2.4794e-06 N 1.625 7.00586e-06 2.22086e-07 9.91077e-07 N 2.125 1.45008e-06 4.57309e-08 2.10981e-07 N 2.375 6.62288e-07 2.76857e-08		1.125	7.87833e-05	1.77588e-06	1.1328e-05
S 1.875 5.28896e-06 1.10252e-07 7.84392e-07 S 2.125 2.30829e-06 6.43388e-08 3.40395e-07 S 2.375 1.06457e-06 3.88081e-08 1.64688e-07 S 2.625 5.93122e-07 2.52695e-08 8.92132e-08 S 2.875 2.45373e-07 1.6632e-08 4.09918e-08 S 3.250 1.05653e-07 6.64511e-09 1.73069e-08 S 3.750 3.32096e-08 3.3888e-09 5.60431e-09 S 4.500 6.92887e-09 9.96432e-10 1.22259e-09 S 6.000 4.22601e-10 1.57461e-10 8.41146e-11 N 1.125 4.41814e-05 1.58397e-06 6.48953e-06 N 1.375 1.72475e-05 5.28496e-07 2.4794e-06 N 1.625 7.00586e-06 2.22086e-07 9.91077e-07 N 1.875 3.28328e-06 8.13347e-08 4.78065e-07 N 2.125 1.45008e-06 4.57309e-08 2.10981e-07 N 2.625 3.15347e-07 1.72927e-08	\mathbf{S}	1.375	3.11564e-05	6.36786e-07	4.50221 e-06
S 2.125 2.30829e-06 6.43388e-08 3.40395e-07 S 2.375 1.06457e-06 3.88081e-08 1.64688e-07 S 2.625 5.93122e-07 2.52695e-08 8.92132e-08 S 2.875 2.45373e-07 1.6632e-08 4.09918e-08 S 3.250 1.05653e-07 6.64511e-09 1.73069e-08 S 3.750 3.32096e-08 3.3888e-09 5.60431e-09 S 4.500 6.92887e-09 9.96432e-10 1.22259e-09 S 6.000 4.22601e-10 1.57461e-10 8.41146e-11 N 1.125 4.41814e-05 1.58397e-06 6.48953e-06 N 1.375 1.72475e-05 5.28496e-07 2.4794e-06 N 1.625 7.00586e-06 2.22086e-07 9.91077e-07 N 1.875 3.28328e-06 8.13347e-08 4.78065e-07 N 2.125 1.45008e-06 4.57309e-08 2.10981e-07 N 2.375 6.62288e-07 2.76857e-08 1.03053e-07 N 2.625 3.15347e-07 1.72927e-08	\mathbf{S}	1.625	1.1703e-05	2.89775e-07	1.67385e-06
S 2.375 1.06457e-06 3.88081e-08 1.64688e-07 S 2.625 5.93122e-07 2.52695e-08 8.92132e-08 S 2.875 2.45373e-07 1.6632e-08 4.09918e-08 S 3.250 1.05653e-07 6.64511e-09 1.73069e-08 S 3.750 3.32096e-08 3.3888e-09 5.60431e-09 S 4.500 6.92887e-09 9.96432e-10 1.22259e-09 S 6.000 4.22601e-10 1.57461e-10 8.41146e-11 N 1.125 4.41814e-05 1.58397e-06 6.48953e-06 N 1.375 1.72475e-05 5.28496e-07 2.4794e-06 N 1.625 7.00586e-06 2.22086e-07 9.91077e-07 N 1.875 3.28328e-06 8.13347e-08 4.78065e-07 N 2.125 1.45008e-06 4.57309e-08 2.10981e-07 N 2.375 6.62288e-07 2.76857e-08 1.03053e-07 N 2.625 3.15347e-07 1.72927e-08 4.86715e-08 N 2.875 1.46579e-07 1.16094e-08	S	1.875	5.28896e-06	1.10252e-07	7.84392e-07
S 2.625 5.93122e-07 2.52695e-08 8.92132e-08 S 2.875 2.45373e-07 1.6632e-08 4.09918e-08 S 3.250 1.05653e-07 6.64511e-09 1.73069e-08 S 3.750 3.32096e-08 3.3888e-09 5.60431e-09 S 4.500 6.92887e-09 9.96432e-10 1.22259e-09 S 6.000 4.22601e-10 1.57461e-10 8.41146e-11 N 1.125 4.41814e-05 1.58397e-06 6.48953e-06 N 1.375 1.72475e-05 5.28496e-07 2.4794e-06 N 1.625 7.00586e-06 2.22086e-07 9.91077e-07 N 1.875 3.28328e-06 8.13347e-08 4.78065e-07 N 2.125 1.45008e-06 4.57309e-08 2.10981e-07 N 2.375 6.62288e-07 2.76857e-08 1.03053e-07 N 2.625 3.15347e-07 1.72927e-08 4.86715e-08 N 2.875 1.46579e-07 1.16094e-08 2.50406e-08 N 3.250 6.06536e-08 4.59532e-09	S	2.125	2.30829e-06	6.43388e-08	3.40395e-07
S 2.875 2.45373e-07 1.6632e-08 4.09918e-08 S 3.250 1.05653e-07 6.64511e-09 1.73069e-08 S 3.750 3.32096e-08 3.3888e-09 5.60431e-09 S 4.500 6.92887e-09 9.96432e-10 1.22259e-09 S 6.000 4.22601e-10 1.57461e-10 8.41146e-11 N 1.125 4.41814e-05 1.58397e-06 6.48953e-06 N 1.375 1.72475e-05 5.28496e-07 2.4794e-06 N 1.625 7.00586e-06 2.22086e-07 9.91077e-07 N 1.875 3.28328e-06 8.13347e-08 4.78065e-07 N 2.125 1.45008e-06 4.57309e-08 2.10981e-07 N 2.375 6.62288e-07 2.76857e-08 1.03053e-07 N 2.625 3.15347e-07 1.72927e-08 4.86715e-08 N 2.875 1.46579e-07 1.16094e-08 2.50406e-08 N 3.250 6.06536e-08 4.59532e-09 1.03001e-08 N 3.750 2.32846e-08 2.47852e-09	S	2.375	1.06457e-06	3.88081e-08	1.64688e-07
S 3.250 1.05653e-07 6.64511e-09 1.73069e-08 S 3.750 3.32096e-08 3.3888e-09 5.60431e-09 S 4.500 6.92887e-09 9.96432e-10 1.22259e-09 S 6.000 4.22601e-10 1.57461e-10 8.41146e-11 N 1.125 4.41814e-05 1.58397e-06 6.48953e-06 N 1.375 1.72475e-05 5.28496e-07 2.4794e-06 N 1.625 7.00586e-06 2.22086e-07 9.91077e-07 N 1.875 3.28328e-06 8.13347e-08 4.78065e-07 N 2.125 1.45008e-06 4.57309e-08 2.10981e-07 N 2.375 6.62288e-07 2.76857e-08 1.03053e-07 N 2.625 3.15347e-07 1.72927e-08 4.86715e-08 N 2.875 1.46579e-07 1.16094e-08 2.50406e-08 N 3.250 6.06536e-08 4.59532e-09 1.03001e-08 N 3.750 2.32846e-08 2.47852e-09 3.9738e-09 N 4.500 4.40867e-09 7.12463e-10	S	2.625	5.93122e-07	2.52695 e-08	8.92132e-08
S 3.750 3.32096e-08 3.3888e-09 5.60431e-09 S 4.500 6.92887e-09 9.96432e-10 1.22259e-09 S 6.000 4.22601e-10 1.57461e-10 8.41146e-11 N 1.125 4.41814e-05 1.58397e-06 6.48953e-06 N 1.375 1.72475e-05 5.28496e-07 2.4794e-06 N 1.625 7.00586e-06 2.22086e-07 9.91077e-07 N 1.875 3.28328e-06 8.13347e-08 4.78065e-07 N 2.125 1.45008e-06 4.57309e-08 2.10981e-07 N 2.375 6.62288e-07 2.76857e-08 1.03053e-07 N 2.625 3.15347e-07 1.72927e-08 4.86715e-08 N 2.875 1.46579e-07 1.16094e-08 2.50406e-08 N 3.250 6.06536e-08 4.59532e-09 1.03001e-08 N 3.750 2.32846e-08 2.47852e-09 3.9738e-09 N 4.500 4.40867e-09 7.12463e-10 8.34314e-10	S	2.875	2.45373e-07	1.6632 e-08	4.09918e-08
S 4.500 6.92887e-09 9.96432e-10 1.22259e-09 S 6.000 4.22601e-10 1.57461e-10 8.41146e-11 N 1.125 4.41814e-05 1.58397e-06 6.48953e-06 N 1.375 1.72475e-05 5.28496e-07 2.4794e-06 N 1.625 7.00586e-06 2.22086e-07 9.91077e-07 N 1.875 3.28328e-06 8.13347e-08 4.78065e-07 N 2.125 1.45008e-06 4.57309e-08 2.10981e-07 N 2.375 6.62288e-07 2.76857e-08 1.03053e-07 N 2.625 3.15347e-07 1.72927e-08 4.86715e-08 N 2.875 1.46579e-07 1.16094e-08 2.50406e-08 N 3.250 6.06536e-08 4.59532e-09 1.03001e-08 N 3.750 2.32846e-08 2.47852e-09 3.9738e-09 N 4.500 4.40867e-09 7.12463e-10 8.34314e-10	S	3.250	1.05653e-07	6.64511e-09	1.73069e-08
S 6.000 4.22601e-10 1.57461e-10 8.41146e-11 N 1.125 4.41814e-05 1.58397e-06 6.48953e-06 N 1.375 1.72475e-05 5.28496e-07 2.4794e-06 N 1.625 7.00586e-06 2.22086e-07 9.91077e-07 N 1.875 3.28328e-06 8.13347e-08 4.78065e-07 N 2.125 1.45008e-06 4.57309e-08 2.10981e-07 N 2.375 6.62288e-07 2.76857e-08 1.03053e-07 N 2.625 3.15347e-07 1.72927e-08 4.86715e-08 N 2.875 1.46579e-07 1.16094e-08 2.50406e-08 N 3.250 6.06536e-08 4.59532e-09 1.03001e-08 N 3.750 2.32846e-08 2.47852e-09 3.9738e-09 N 4.500 4.40867e-09 7.12463e-10 8.34314e-10	S	3.750	3.32096e-08	3.3888e-09	5.60431e-09
N 1.125 4.41814e-05 1.58397e-06 6.48953e-06 N 1.375 1.72475e-05 5.28496e-07 2.4794e-06 N 1.625 7.00586e-06 2.22086e-07 9.91077e-07 N 1.875 3.28328e-06 8.13347e-08 4.78065e-07 N 2.125 1.45008e-06 4.57309e-08 2.10981e-07 N 2.375 6.62288e-07 2.76857e-08 1.03053e-07 N 2.625 3.15347e-07 1.72927e-08 4.86715e-08 N 2.875 1.46579e-07 1.16094e-08 2.50406e-08 N 3.250 6.06536e-08 4.59532e-09 1.03001e-08 N 3.750 2.32846e-08 2.47852e-09 3.9738e-09 N 4.500 4.40867e-09 7.12463e-10 8.34314e-10	S	4.500	6.92887e-09	9.96432e-10	1.22259e-09
N 1.375 1.72475e-05 5.28496e-07 2.4794e-06 N 1.625 7.00586e-06 2.22086e-07 9.91077e-07 N 1.875 3.28328e-06 8.13347e-08 4.78065e-07 N 2.125 1.45008e-06 4.57309e-08 2.10981e-07 N 2.375 6.62288e-07 2.76857e-08 1.03053e-07 N 2.625 3.15347e-07 1.72927e-08 4.86715e-08 N 2.875 1.46579e-07 1.16094e-08 2.50406e-08 N 3.250 6.06536e-08 4.59532e-09 1.03001e-08 N 3.750 2.32846e-08 2.47852e-09 3.9738e-09 N 4.500 4.40867e-09 7.12463e-10 8.34314e-10	S	6.000	4.22601e-10	1.57461e-10	8.41146e-11
N 1.625 7.00586e-06 2.22086e-07 9.91077e-07 N 1.875 3.28328e-06 8.13347e-08 4.78065e-07 N 2.125 1.45008e-06 4.57309e-08 2.10981e-07 N 2.375 6.62288e-07 2.76857e-08 1.03053e-07 N 2.625 3.15347e-07 1.72927e-08 4.86715e-08 N 2.875 1.46579e-07 1.16094e-08 2.50406e-08 N 3.250 6.06536e-08 4.59532e-09 1.03001e-08 N 3.750 2.32846e-08 2.47852e-09 3.9738e-09 N 4.500 4.40867e-09 7.12463e-10 8.34314e-10	N	1.125	4.41814e-05	1.58397e-06	6.48953e-06
N 1.875 3.28328e-06 8.13347e-08 4.78065e-07 N 2.125 1.45008e-06 4.57309e-08 2.10981e-07 N 2.375 6.62288e-07 2.76857e-08 1.03053e-07 N 2.625 3.15347e-07 1.72927e-08 4.86715e-08 N 2.875 1.46579e-07 1.16094e-08 2.50406e-08 N 3.250 6.06536e-08 4.59532e-09 1.03001e-08 N 3.750 2.32846e-08 2.47852e-09 3.9738e-09 N 4.500 4.40867e-09 7.12463e-10 8.34314e-10	N	1.375	1.72475e-05	5.28496e-07	2.4794e-06
N 2.125 1.45008e-06 4.57309e-08 2.10981e-07 N 2.375 6.62288e-07 2.76857e-08 1.03053e-07 N 2.625 3.15347e-07 1.72927e-08 4.86715e-08 N 2.875 1.46579e-07 1.16094e-08 2.50406e-08 N 3.250 6.06536e-08 4.59532e-09 1.03001e-08 N 3.750 2.32846e-08 2.47852e-09 3.9738e-09 N 4.500 4.40867e-09 7.12463e-10 8.34314e-10	N	1.625	7.00586e-06	2.22086e-07	9.91077e-07
N 2.375 6.62288e-07 2.76857e-08 1.03053e-07 N 2.625 3.15347e-07 1.72927e-08 4.86715e-08 N 2.875 1.46579e-07 1.16094e-08 2.50406e-08 N 3.250 6.06536e-08 4.59532e-09 1.03001e-08 N 3.750 2.32846e-08 2.47852e-09 3.9738e-09 N 4.500 4.40867e-09 7.12463e-10 8.34314e-10	N	1.875	3.28328e-06	8.13347e-08	4.78065e-07
N 2.625 3.15347e-07 1.72927e-08 4.86715e-08 N 2.875 1.46579e-07 1.16094e-08 2.50406e-08 N 3.250 6.06536e-08 4.59532e-09 1.03001e-08 N 3.750 2.32846e-08 2.47852e-09 3.9738e-09 N 4.500 4.40867e-09 7.12463e-10 8.34314e-10	N	2.125	1.45008e-06	4.57309e-08	2.10981e-07
N 2.875 1.46579e-07 1.16094e-08 2.50406e-08 N 3.250 6.06536e-08 4.59532e-09 1.03001e-08 N 3.750 2.32846e-08 2.47852e-09 3.9738e-09 N 4.500 4.40867e-09 7.12463e-10 8.34314e-10	N	2.375	6.62288e-07	2.76857e-08	1.03053e-07
N 3.250 6.06536e-08 4.59532e-09 1.03001e-08 N 3.750 2.32846e-08 2.47852e-09 3.9738e-09 N 4.500 4.40867e-09 7.12463e-10 8.34314e-10	N	2.625	3.15347e-07	1.72927e-08	4.86715 e - 08
N 3.750 2.32846e-08 2.47852e-09 3.9738e-09 N 4.500 4.40867e-09 7.12463e-10 8.34314e-10	N	2.875	1.46579e-07	1.16094e-08	2.50406e-08
N 4.500 4.40867e-09 7.12463e-10 8.34314e-10	N	3.250	6.06536e-08	4.59532e-09	1.03001 e-08
	N	3.750	2.32846e-08	2.47852e-09	3.9738e-09
N 6.000 2.97442e-10 1.20948e-10 6.84856e-11	N	4.500	4.40867e-09	7.12463e-10	8.34314e-10
	N	6.000	2.97442e-10	1.20948e-10	6.84856e-11

Table 5: Heavy flavor muon invariant yield in 40–60% d + Au collisions at backward (South, -2.0 < y < -1.4) and forward (Nouth, 1.4 < y < 2.0) rapidity.

rapidity	p_T	$1/2\pi p_T d^2N/dp_T dy$	stat. uncertainty	sys. uncertainty
S	1.125	4.76839e-05	1.19829e-06	6.7301e-06
S	1.375	1.78767e-05	4.40746e-07	2.58897e-06
S	1.625	5.8563e-06	2.08583e-07	8.53649 e-07
S	1.875	3.0216e-06	8.12674e-08	4.48807e-07
S	2.125	1.40565e-06	4.74147e-08	2.06443e-07
S	2.375	6.62569 e-07	2.91041e-08	1.01766e-07
S	2.625	3.57336e-07	1.92998e-08	5.37999e-08
S	2.875	1.5176e-07	1.25614e-08	2.50575e-08
S	3.250	6.35802 e-08	5.08395e-09	1.0429e-08
S	3.750	2.16067e-08	2.6384e-09	3.59425e-09
S	4.500	4.61152e-09	7.78361e-10	7.98378e-10
S	6.000	4.79597e-10	1.38627e-10	8.1543e-11
N	1.125	3.46761e-05	1.16105 e-06	5.01982e-06
N	1.375	1.33877e-05	3.8972e-07	1.87965e-06
N	1.625	5.13446e-06	1.65526e-07	7.19571e-07
N	1.875	2.18268e-06	6.27096e-08	3.18109e-07
N	2.125	9.75049e-07	3.57627e-08	1.42207e-07
N	2.375	4.81011e-07	2.14749e-08	7.46127e-08
N	2.625	2.46561e-07	1.38625 e-08	3.74184e-08
N	2.875	1.11929e-07	9.22904e-09	1.87074e-08
N	3.250	3.8516e-08	3.61992e-09	6.63812e-09
N	3.750	1.36515e-08	1.97016e-09	2.39609e-09
N	4.500	2.87267e-09	5.57628e-10	5.47767e-10
N	6.000	2.79348e-10	1.03577e-10	5.55134e-11

Table 6: Heavy flavor muon invariant yield in 60–88% d+ Au collisions at backward (South, -2.0 < y < -1.4) and forward (Nouth, 1.4 < y < 2.0) rapidity.

	1/9 J2N/J J	-4-4	
		<u> </u>	sys. uncertainty
			3.89991e-06
1.375			1.55748e-06
1.625	2.68453e-06	1.01559e-07	5.17221e-07
1.875	9.69333e-07	4.09775e-08	1.98598e-07
2.125	4.04049e-07	2.46467e-08	8.17191e-08
2.375	2.40364e-07	1.51879e-08	4.9275e-08
2.625	1.39322e-07	9.96853e-09	2.73372e-08
2.875	6.03014 e-08	6.57308e-09	1.3176e-08
3.250	2.12247e-08	2.66847e-09	4.70983e-09
3.750	8.8903e-09	1.42511e-09	1.92949e-09
4.500	1.8649e-09	4.30911e-10	4.16945e-10
6.000	1.61894e-10	7.03612e-11	3.64032e-11
1.125	2.45185e-05	5.9497e-07	4.41471e-06
1.375	8.25563 e-06	1.99489e-07	1.47916e-06
1.625	2.87327e-06	8.95294 e-08	5.18584e-07
1.875	1.15749e-06	3.39835e-08	2.19479e-07
2.125	5.47646e-07	1.91719e-08	1.04096e-07
2.375	2.25959e-07	1.17768e-08	4.64882e-08
2.625	9.96989e-08	7.47995e-09	2.03789e-08
2.875	5.52528e-08	5.12758e-09	1.21195e-08
3.250	2.31372e-08	2.04976e-09	4.99698e-09
3.750	7.12927e-09	1.09177e-09	1.59946e-09
4.500	1.94703e-09	3.35261e-10	4.32415e-10
6.000	9.41391e-11	5.77074e-11	2.64966e-11
	2.125 2.375 2.625 2.875 3.250 3.750 4.500 6.000 1.125 1.375 1.625 2.125 2.375 2.625 2.875 3.250 3.750 4.500	1.125 2.04245e-05 1.375 8.05659e-06 1.625 2.68453e-06 1.875 9.69333e-07 2.125 4.04049e-07 2.375 2.40364e-07 2.625 1.39322e-07 2.875 6.03014e-08 3.250 2.12247e-08 3.750 8.8903e-09 4.500 1.8649e-09 6.000 1.61894e-10 1.125 2.45185e-05 1.375 8.25563e-06 1.625 2.87327e-06 1.875 1.15749e-06 2.125 5.47646e-07 2.375 2.25959e-07 2.625 9.96989e-08 2.875 5.52528e-08 3.250 2.31372e-08 3.750 7.12927e-09 4.500 1.94703e-09	1.125 2.04245e-05 5.57111e-07 1.375 8.05659e-06 2.10763e-07 1.625 2.68453e-06 1.01559e-07 1.875 9.69333e-07 4.09775e-08 2.125 4.04049e-07 2.46467e-08 2.375 2.40364e-07 1.51879e-08 2.625 1.39322e-07 9.96853e-09 2.875 6.03014e-08 6.57308e-09 3.250 2.12247e-08 2.66847e-09 3.750 8.8903e-09 1.42511e-09 4.500 1.8649e-09 4.30911e-10 6.000 1.61894e-10 7.03612e-11 1.125 2.45185e-05 5.9497e-07 1.375 8.25563e-06 1.99489e-07 1.625 2.87327e-06 8.95294e-08 2.125 5.47646e-07 1.91719e-08 2.375 2.25959e-07 1.17768e-08 2.625 9.96989e-08 7.47995e-09 2.875 5.52528e-08 5.12758e-09 3.250 2.31372e-08 2.04976e-09 3.750 7.12927e-09 1.09177e-09 4.500 1.94703e-09

Table 7: Heavy flavor muon $R_{d\mathrm{A}}$ in 0–100% centrality class at backward (South, -2.0 < y < -1.4) and forward (Nouth, 1.4 < y < 2.0) rapidity. Global uncertainty 10.4% is not included.

$\begin{array}{ c c c c c c c }\hline \text{rapidity} & p_T & R_{dA} & \text{stat. uncertainty} & \text{sys. uncertainty}\\\hline S & 1.125 & 1.22722 & 0.0485808 & 0.229366\\ S & 1.375 & 1.50905 & 0.0608238 & 0.286656\\ S & 1.625 & 1.42552 & 0.0656092 & 0.271463\\ S & 1.875 & 1.66276 & 0.0686749 & 0.334925\\ S & 2.125 & 1.64555 & 0.0865221 & 0.331397\\ S & 2.375 & 1.65984 & 0.112818 & 0.363098\\ S & 2.625 & 1.81125 & 0.158695 & 0.384111\\ S & 2.875 & 1.56555 & 0.167536 & 0.36888\\ S & 3.250 & 1.41405 & 0.14341 & 0.329274\\ S & 3.750 & 1.53419 & 0.265131 & 0.377626\\ S & 4.500 & 1.40072 & 0.291679 & 0.353309\\ S & 6.000 & 0.945383 & 0.290077 & 0.232168\\ N & 1.125 & 0.659105 & 0.0322648 & 0.124809\\ N & 1.375 & 0.844061 & 0.0386078 & 0.159339\\ N & 1.625 & 0.85201 & 0.0429636 & 0.161101\\ N & 1.875 & 0.994379 & 0.0434925 & 0.199339\\ N & 2.125 & 0.975799 & 0.0540043 & 0.195957\\ N & 2.375 & 0.995834 & 0.0706888 & 0.218414\\ N & 2.625 & 1.05552 & 0.0961878 & 0.22479\\ N & 2.875 & 0.911338 & 0.101481 & 0.217416\\ N & 3.250 & 0.837212 & 0.0883599 & 0.198007\\ N & 3.750 & 1.01692 & 0.179879 & 0.251818\\ N & 4.500 & 0.883059 & 0.188925 & 0.227831\\ N & 6.000 & 0.601856 & 0.194292 & 0.154645\\ \hline \end{array}$					
S 1.375 1.50905 0.0608238 0.286656 S 1.625 1.42552 0.0656092 0.271463 S 1.875 1.66276 0.0686749 0.334925 S 2.125 1.64555 0.0865221 0.331397 S 2.375 1.65984 0.112818 0.363098 S 2.625 1.81125 0.158695 0.384111 S 2.875 1.56555 0.167536 0.36888 S 3.250 1.41405 0.14341 0.329274 S 3.750 1.53419 0.265131 0.377626 S 4.500 1.40072 0.291679 0.353309 S 6.000 0.945383 0.290077 0.232168 N 1.125 0.659105 0.0322648 0.124809 N 1.375 0.844061 0.0386078 0.159339 N 1.625 0.85201 0.0429636 0.161101 N 1.875 0.994379 0.0434925 0.199339 N 2.125 0.975799 0.0540043 <t< td=""><td>rapidity</td><td>p_T</td><td>R_{dA}</td><td>stat. uncertainty</td><td>sys. uncertainty</td></t<>	rapidity	p_T	R_{dA}	stat. uncertainty	sys. uncertainty
S 1.625 1.42552 0.0656092 0.271463 S 1.875 1.66276 0.0686749 0.334925 S 2.125 1.64555 0.0865221 0.331397 S 2.375 1.65984 0.112818 0.363098 S 2.625 1.81125 0.158695 0.384111 S 2.875 1.56555 0.167536 0.36888 S 3.250 1.41405 0.14341 0.329274 S 3.750 1.53419 0.265131 0.377626 S 4.500 1.40072 0.291679 0.353309 S 6.000 0.945383 0.290077 0.232168 N 1.125 0.659105 0.0322648 0.124809 N 1.375 0.844061 0.0386078 0.159339 N 1.625 0.85201 0.0429636 0.161101 N 1.875 0.994379 0.0434925 0.199339 N 2.125 0.975799 0.0540043 0.195957 N 2.375 0.995834 0.0706888 <	S	1.125	1.22722	0.0485808	0.229366
S 1.875 1.66276 0.0686749 0.334925 S 2.125 1.64555 0.0865221 0.331397 S 2.375 1.65984 0.112818 0.363098 S 2.625 1.81125 0.158695 0.384111 S 2.875 1.56555 0.167536 0.36888 S 3.250 1.41405 0.14341 0.329274 S 3.750 1.53419 0.265131 0.377626 S 4.500 1.40072 0.291679 0.353309 S 6.000 0.945383 0.290077 0.232168 N 1.125 0.659105 0.0322648 0.124809 N 1.375 0.844061 0.0386078 0.159339 N 1.625 0.85201 0.0429636 0.161101 N 1.875 0.994379 0.0434925 0.199339 N 2.125 0.975799 0.0540043 0.195957 N 2.375 0.995834 0.0706888 0.218414 N 2.625 1.05552 0.0961878 <	S	1.375	1.50905	0.0608238	0.286656
S 2.125 1.64555 0.0865221 0.331397 S 2.375 1.65984 0.112818 0.363098 S 2.625 1.81125 0.158695 0.384111 S 2.875 1.56555 0.167536 0.36888 S 3.250 1.41405 0.14341 0.329274 S 3.750 1.53419 0.265131 0.377626 S 4.500 1.40072 0.291679 0.353309 S 6.000 0.945383 0.290077 0.232168 N 1.125 0.659105 0.0322648 0.124809 N 1.375 0.844061 0.0386078 0.159339 N 1.625 0.85201 0.0429636 0.161101 N 1.875 0.994379 0.0434925 0.199339 N 2.125 0.975799 0.0540043 0.195957 N 2.375 0.995834 0.0706888 0.218414 N 2.625 1.05552 0.0961878 0.22479 N 2.875 0.911338 0.101481 <t< td=""><td>S</td><td>1.625</td><td>1.42552</td><td>0.0656092</td><td>0.271463</td></t<>	S	1.625	1.42552	0.0656092	0.271463
S 2.375 1.65984 0.112818 0.363098 S 2.625 1.81125 0.158695 0.384111 S 2.875 1.56555 0.167536 0.36888 S 3.250 1.41405 0.14341 0.329274 S 3.750 1.53419 0.265131 0.377626 S 4.500 1.40072 0.291679 0.353309 S 6.000 0.945383 0.290077 0.232168 N 1.125 0.659105 0.0322648 0.124809 N 1.375 0.844061 0.0386078 0.159339 N 1.625 0.85201 0.0429636 0.161101 N 1.875 0.994379 0.0434925 0.199339 N 2.125 0.975799 0.0540043 0.195957 N 2.375 0.995834 0.0706888 0.218414 N 2.625 1.05552 0.0961878 0.22479 N 2.875 0.911338 0.101481 0.217416 N 3.750 1.01692 0.179879 <td< td=""><td>S</td><td>1.875</td><td>1.66276</td><td>0.0686749</td><td>0.334925</td></td<>	S	1.875	1.66276	0.0686749	0.334925
S 2.625 1.81125 0.158695 0.384111 S 2.875 1.56555 0.167536 0.36888 S 3.250 1.41405 0.14341 0.329274 S 3.750 1.53419 0.265131 0.377626 S 4.500 1.40072 0.291679 0.353309 S 6.000 0.945383 0.290077 0.232168 N 1.125 0.659105 0.0322648 0.124809 N 1.375 0.844061 0.0386078 0.159339 N 1.625 0.85201 0.0429636 0.161101 N 1.875 0.994379 0.0434925 0.199339 N 2.125 0.975799 0.0540043 0.195957 N 2.375 0.995834 0.0706888 0.218414 N 2.625 1.05552 0.0961878 0.22479 N 2.875 0.911338 0.101481 0.217416 N 3.250 0.837212 0.0883599 0.198007 N 3.750 1.01692 0.179879 <	S	2.125	1.64555	0.0865221	0.331397
S 2.875 1.56555 0.167536 0.36888 S 3.250 1.41405 0.14341 0.329274 S 3.750 1.53419 0.265131 0.377626 S 4.500 1.40072 0.291679 0.353309 S 6.000 0.945383 0.290077 0.232168 N 1.125 0.659105 0.0322648 0.124809 N 1.375 0.844061 0.0386078 0.159339 N 1.625 0.85201 0.0429636 0.161101 N 1.875 0.994379 0.0434925 0.199339 N 2.125 0.975799 0.0540043 0.195957 N 2.375 0.995834 0.0706888 0.218414 N 2.625 1.05552 0.0961878 0.22479 N 2.875 0.911338 0.101481 0.217416 N 3.250 0.837212 0.0883599 0.198007 N 3.750 1.01692 0.179879 0.251818 N 4.500 0.883059 0.188925	S	2.375	1.65984	0.112818	0.363098
S 3.250 1.41405 0.14341 0.329274 S 3.750 1.53419 0.265131 0.377626 S 4.500 1.40072 0.291679 0.353309 S 6.000 0.945383 0.290077 0.232168 N 1.125 0.659105 0.0322648 0.124809 N 1.375 0.844061 0.0386078 0.159339 N 1.625 0.85201 0.0429636 0.161101 N 1.875 0.994379 0.0434925 0.199339 N 2.125 0.975799 0.0540043 0.195957 N 2.375 0.995834 0.0706888 0.218414 N 2.625 1.05552 0.0961878 0.22479 N 2.875 0.911338 0.101481 0.217416 N 3.250 0.837212 0.0883599 0.198007 N 3.750 1.01692 0.179879 0.251818 N 4.500 0.883059 0.188925 0.227831	S	2.625	1.81125	0.158695	0.384111
S 3.750 1.53419 0.265131 0.377626 S 4.500 1.40072 0.291679 0.353309 S 6.000 0.945383 0.290077 0.232168 N 1.125 0.659105 0.0322648 0.124809 N 1.375 0.844061 0.0386078 0.159339 N 1.625 0.85201 0.0429636 0.161101 N 1.875 0.994379 0.0434925 0.199339 N 2.125 0.975799 0.0540043 0.195957 N 2.375 0.995834 0.0706888 0.218414 N 2.625 1.05552 0.0961878 0.22479 N 2.875 0.911338 0.101481 0.217416 N 3.250 0.837212 0.0883599 0.198007 N 3.750 1.01692 0.179879 0.251818 N 4.500 0.883059 0.188925 0.227831	S	2.875	1.56555	0.167536	0.36888
S 4.500 1.40072 0.291679 0.353309 S 6.000 0.945383 0.290077 0.232168 N 1.125 0.659105 0.0322648 0.124809 N 1.375 0.844061 0.0386078 0.159339 N 1.625 0.85201 0.0429636 0.161101 N 1.875 0.994379 0.0434925 0.199339 N 2.125 0.975799 0.0540043 0.195957 N 2.375 0.995834 0.0706888 0.218414 N 2.625 1.05552 0.0961878 0.22479 N 2.875 0.911338 0.101481 0.217416 N 3.250 0.837212 0.0883599 0.198007 N 3.750 1.01692 0.179879 0.251818 N 4.500 0.883059 0.188925 0.227831	S	3.250	1.41405	0.14341	0.329274
S 6.000 0.945383 0.290077 0.232168 N 1.125 0.659105 0.0322648 0.124809 N 1.375 0.844061 0.0386078 0.159339 N 1.625 0.85201 0.0429636 0.161101 N 1.875 0.994379 0.0434925 0.199339 N 2.125 0.975799 0.0540043 0.195957 N 2.375 0.995834 0.0706888 0.218414 N 2.625 1.05552 0.0961878 0.22479 N 2.875 0.911338 0.101481 0.217416 N 3.250 0.837212 0.0883599 0.198007 N 3.750 1.01692 0.179879 0.251818 N 4.500 0.883059 0.188925 0.227831	S	3.750	1.53419	0.265131	0.377626
N 1.125 0.659105 0.0322648 0.124809 N 1.375 0.844061 0.0386078 0.159339 N 1.625 0.85201 0.0429636 0.161101 N 1.875 0.994379 0.0434925 0.199339 N 2.125 0.975799 0.0540043 0.195957 N 2.375 0.995834 0.0706888 0.218414 N 2.625 1.05552 0.0961878 0.22479 N 2.875 0.911338 0.101481 0.217416 N 3.250 0.837212 0.0883599 0.198007 N 3.750 1.01692 0.179879 0.251818 N 4.500 0.883059 0.188925 0.227831	S	4.500	1.40072	0.291679	0.353309
N 1.375 0.844061 0.0386078 0.159339 N 1.625 0.85201 0.0429636 0.161101 N 1.875 0.994379 0.0434925 0.199339 N 2.125 0.975799 0.0540043 0.195957 N 2.375 0.995834 0.0706888 0.218414 N 2.625 1.05552 0.0961878 0.22479 N 2.875 0.911338 0.101481 0.217416 N 3.250 0.837212 0.0883599 0.198007 N 3.750 1.01692 0.179879 0.251818 N 4.500 0.883059 0.188925 0.227831	S	6.000	0.945383	0.290077	0.232168
N 1.625 0.85201 0.0429636 0.161101 N 1.875 0.994379 0.0434925 0.199339 N 2.125 0.975799 0.0540043 0.195957 N 2.375 0.995834 0.0706888 0.218414 N 2.625 1.05552 0.0961878 0.22479 N 2.875 0.911338 0.101481 0.217416 N 3.250 0.837212 0.0883599 0.198007 N 3.750 1.01692 0.179879 0.251818 N 4.500 0.883059 0.188925 0.227831	N	1.125	0.659105	0.0322648	0.124809
N 1.875 0.994379 0.0434925 0.199339 N 2.125 0.975799 0.0540043 0.195957 N 2.375 0.995834 0.0706888 0.218414 N 2.625 1.05552 0.0961878 0.22479 N 2.875 0.911338 0.101481 0.217416 N 3.250 0.837212 0.0883599 0.198007 N 3.750 1.01692 0.179879 0.251818 N 4.500 0.883059 0.188925 0.227831	N	1.375	0.844061	0.0386078	0.159339
N 2.125 0.975799 0.0540043 0.195957 N 2.375 0.995834 0.0706888 0.218414 N 2.625 1.05552 0.0961878 0.22479 N 2.875 0.911338 0.101481 0.217416 N 3.250 0.837212 0.0883599 0.198007 N 3.750 1.01692 0.179879 0.251818 N 4.500 0.883059 0.188925 0.227831	N	1.625	0.85201	0.0429636	0.161101
N 2.375 0.995834 0.0706888 0.218414 N 2.625 1.05552 0.0961878 0.22479 N 2.875 0.911338 0.101481 0.217416 N 3.250 0.837212 0.0883599 0.198007 N 3.750 1.01692 0.179879 0.251818 N 4.500 0.883059 0.188925 0.227831	N	1.875	0.994379	0.0434925	0.199339
N 2.625 1.05552 0.0961878 0.22479 N 2.875 0.911338 0.101481 0.217416 N 3.250 0.837212 0.0883599 0.198007 N 3.750 1.01692 0.179879 0.251818 N 4.500 0.883059 0.188925 0.227831	N	2.125	0.975799	0.0540043	0.195957
N 2.875 0.911338 0.101481 0.217416 N 3.250 0.837212 0.0883599 0.198007 N 3.750 1.01692 0.179879 0.251818 N 4.500 0.883059 0.188925 0.227831	N	2.375	0.995834	0.0706888	0.218414
N 3.250 0.837212 0.0883599 0.198007 N 3.750 1.01692 0.179879 0.251818 N 4.500 0.883059 0.188925 0.227831	N	2.625	1.05552	0.0961878	0.22479
N 3.750 1.01692 0.179879 0.251818 N 4.500 0.883059 0.188925 0.227831	N	2.875	0.911338	0.101481	0.217416
N = 4.500 = 0.883059 = 0.188925 = 0.227831	N	3.250	0.837212	0.0883599	0.198007
	N	3.750	1.01692	0.179879	0.251818
N 6.000 0.601856 0.194292 0.154645	N	4.500	0.883059	0.188925	0.227831
	N	6.000	0.601856	0.194292	0.154645

Table 8: Heavy flavor muon R_{dA} in 0–20% centrality class at backward (South, -2.0 < y < -1.4) and forward (Nouth, 1.4 < y < 2.0) rapidity. Global uncertainty 11.0% is not included.

rapidity	p_T	R_{dA}	stat. uncertainty	sys. uncertainty
S	1.125	1.50505	0.0580309	0.279917
S	1.375	1.82439	0.073155	0.342255
S	1.625	1.79303	0.0820153	0.337548
\mathbf{S}	1.875	1.92385	0.0806596	0.384877
S	2.125	1.84845	0.0997342	0.369996
S	2.375	1.82618	0.128116	0.398226
S	2.625	1.86446	0.169869	0.395934
S	2.875	1.73719	0.192534	0.407817
S	3.250	1.44191	0.154265	0.337803
S	3.750	1.41892	0.260937	0.355508
S	4.500	1.51455	0.329885	0.382188
S	6.000	0.991064	0.32744	0.245757
N	1.125	0.539525	0.0279606	0.102968
N	1.375	0.670848	0.0330657	0.127999
N	1.625	0.692226	0.0373826	0.13193
N	1.875	0.837114	0.0383232	0.168851
N	2.125	0.856834	0.0495966	0.172553
N	2.375	0.840515	0.0627771	0.185603
N	2.625	0.921036	0.0878861	0.197015
N	2.875	0.781902	0.0917625	0.188741
N	3.250	0.777094	0.0859809	0.18308
N	3.750	0.917098	0.168074	0.227235
N	4.500	0.914528	0.203528	0.232128
N	6.000	0.503566	0.180839	0.130923

Table 9: Heavy flavor muon R_{dA} in 20–40% centrality class at backward (South, -2.0 < y < -1.4) and forward (Nouth, 1.4 < y < 2.0) rapidity. Global uncertainty 10.7% is not included.

rapidity	p_T	R_{dA}	stat. uncertainty	sys. uncertainty
S	1.125	1.22289	0.0501773	0.23111
\mathbf{S}	1.375	1.5241	0.0638579	0.291636
S	1.625	1.50621	0.0724621	0.287358
S	1.875	1.70134	0.0739602	0.344938
S	2.125	1.68722	0.0945801	0.340918
S	2.375	1.71102	0.123847	0.374776
S	2.625	1.96335	0.181772	0.416355
S	2.875	1.50235	0.175428	0.357971
S	3.250	1.5305	0.168024	0.355421
S	3.750	1.65516	0.307104	0.405386
S	4.500	1.38575	0.318049	0.350927
S	6.000	0.712072	0.286119	0.183758
N	1.125	0.685791	0.0339761	0.131229
N	1.375	0.843709	0.0400933	0.160967
N	1.625	0.901673	0.0467109	0.170969
N	1.875	1.05616	0.047767	0.212052
N	2.125	1.05992	0.0611642	0.212647
N	2.375	1.06445	0.0792206	0.233835
N	2.625	1.04386	0.101516	0.224293
N	2.875	0.897461	0.108239	0.21623
N	3.250	0.878633	0.1003	0.207799
N	3.750	1.1605	0.216516	0.285762
N	4.500	0.881718	0.20479	0.231289
N	6.000	0.501182	0.195929	0.14175

Table 10: Heavy flavor muon R_{dA} in 40–60% centrality class at backward (South, -2.0 < y < -1.4) and forward (Nouth, 1.4 < y < 2.0) rapidity. Global uncertainty 11.1% is not included.

$\begin{array}{ c c c c c c c } \hline \text{rapidity} & p_T & R_{dA} & \text{stat. uncertainty} & \text{sys. uncertainty} \\ \hline S & 1.125 & 1.15293 & 0.0489963 & 0.215577 \\ \hline S & 1.375 & 1.36217 & 0.0599837 & 0.260982 \\ \hline S & 1.625 & 1.17406 & 0.0635807 & 0.22641 \\ \hline S & 1.875 & 1.51404 & 0.0701466 & 0.307214 \\ \hline S & 2.125 & 1.60043 & 0.0942284 & 0.322682 \\ \hline S & 2.375 & 1.65879 & 0.125448 & 0.362043 \\ \hline S & 2.625 & 1.84251 & 0.179551 & 0.39092 \\ \hline S & 2.875 & 1.44738 & 0.178477 & 0.342903 \\ \hline S & 3.250 & 1.43467 & 0.168208 & 0.333391 \\ \hline S & 3.750 & 1.67742 & 0.325305 & 0.408068 \\ \hline S & 4.500 & 1.43663 & 0.345494 & 0.360504 \\ \hline S & 6.000 & 1.25878 & 0.465929 & 0.29758 \\ \hline N & 1.125 & 0.838419 & 0.0401368 & 0.159075 \\ \hline N & 1.375 & 1.02012 & 0.0475133 & 0.192059 \\ \hline N & 1.625 & 1.02935 & 0.0536311 & 0.194167 \\ \hline N & 1.875 & 1.09368 & 0.051584 & 0.219694 \\ \hline N & 2.125 & 1.11016 & 0.0668415 & 0.223009 \\ \hline N & 2.375 & 1.20424 & 0.0911031 & 0.264129 \\ \hline N & 2.625 & 1.27133 & 0.124698 & 0.270821 \\ \hline N & 2.875 & 1.0675 & 0.130827 & 0.254415 \\ \hline N & 3.250 & 0.869104 & 0.106235 & 0.207129 \\ \hline N & 3.750 & 1.05983 & 0.212875 & 0.264565 \\ \hline N & 4.500 & 0.894925 & 0.219583 & 0.235684 \\ \hline N & 6.000 & 0.733193 & 0.283512 & 0.189031 \\ \hline \end{array}$					
S 1.375 1.36217 0.0599837 0.260982 S 1.625 1.17406 0.0635807 0.22641 S 1.875 1.51404 0.0701466 0.307214 S 2.125 1.60043 0.0942284 0.322682 S 2.375 1.65879 0.125448 0.362043 S 2.625 1.84251 0.179551 0.39092 S 2.875 1.44738 0.178477 0.342903 S 3.250 1.43467 0.168208 0.333391 S 3.750 1.67742 0.325305 0.408068 S 4.500 1.43663 0.345494 0.360504 S 6.000 1.25878 0.465929 0.29758 N 1.125 0.838419 0.0401368 0.159075 N 1.375 1.02012 0.0475133 0.192059 N 1.625 1.02935 0.0536311 0.194167 N 1.875 1.09368 0.051584 0.219694 N 2.125 1.11016 0.0668415 0.22	rapidity	p_T	R_{dA}	stat. uncertainty	sys. uncertainty
S 1.625 1.17406 0.0635807 0.22641 S 1.875 1.51404 0.0701466 0.307214 S 2.125 1.60043 0.0942284 0.322682 S 2.375 1.65879 0.125448 0.362043 S 2.625 1.84251 0.179551 0.39092 S 2.875 1.44738 0.178477 0.342903 S 3.250 1.43467 0.168208 0.333391 S 3.750 1.67742 0.325305 0.408068 S 4.500 1.43663 0.345494 0.360504 S 6.000 1.25878 0.465929 0.29758 N 1.125 0.838419 0.0401368 0.159075 N 1.375 1.02012 0.0475133 0.192059 N 1.625 1.02935 0.0536311 0.194167 N 1.875 1.09368 0.051584 0.219694 N 2.125 1.11016 0.0668415 0.223009 N 2.375 1.20424 0.0911031 0.26	S	1.125	1.15293	0.0489963	0.215577
S 1.875 1.51404 0.0701466 0.307214 S 2.125 1.60043 0.0942284 0.322682 S 2.375 1.65879 0.125448 0.362043 S 2.625 1.84251 0.179551 0.39092 S 2.875 1.44738 0.178477 0.342903 S 3.250 1.43467 0.168208 0.333391 S 3.750 1.67742 0.325305 0.408068 S 4.500 1.43663 0.345494 0.360504 S 6.000 1.25878 0.465929 0.29758 N 1.125 0.838419 0.0401368 0.159075 N 1.375 1.02012 0.0475133 0.192059 N 1.625 1.02935 0.0536311 0.194167 N 1.875 1.09368 0.051584 0.219694 N 2.125 1.11016 0.0668415 0.223009 N 2.375 1.20424 0.0911031 0.264129 N 2.625 1.27133 0.124698 0.27	S	1.375	1.36217	0.0599837	0.260982
S 2.125 1.60043 0.0942284 0.322682 S 2.375 1.65879 0.125448 0.362043 S 2.625 1.84251 0.179551 0.39092 S 2.875 1.44738 0.178477 0.342903 S 3.250 1.43467 0.168208 0.333391 S 3.750 1.67742 0.325305 0.408068 S 4.500 1.43663 0.345494 0.360504 S 6.000 1.25878 0.465929 0.29758 N 1.125 0.838419 0.0401368 0.159075 N 1.375 1.02012 0.0475133 0.192059 N 1.625 1.02935 0.0536311 0.194167 N 1.875 1.09368 0.051584 0.219694 N 2.125 1.11016 0.0668415 0.223009 N 2.375 1.20424 0.0911031 0.264129 N 2.875 1.0675 0.130827 0.254415 N 3.250 0.869104 0.106235 0.207	S	1.625	1.17406	0.0635807	0.22641
S 2.375 1.65879 0.125448 0.362043 S 2.625 1.84251 0.179551 0.39092 S 2.875 1.44738 0.178477 0.342903 S 3.250 1.43467 0.168208 0.333391 S 3.750 1.67742 0.325305 0.408068 S 4.500 1.43663 0.345494 0.360504 S 6.000 1.25878 0.465929 0.29758 N 1.125 0.838419 0.0401368 0.159075 N 1.375 1.02012 0.0475133 0.192059 N 1.625 1.02935 0.0536311 0.194167 N 1.875 1.09368 0.051584 0.219694 N 2.125 1.11016 0.0668415 0.223009 N 2.375 1.20424 0.0911031 0.264129 N 2.625 1.27133 0.124698 0.270821 N 2.875 1.0675 0.130827 0.254415 N 3.250 0.869104 0.106235 0.2071	S	1.875	1.51404	0.0701466	0.307214
S 2.625 1.84251 0.179551 0.39092 S 2.875 1.44738 0.178477 0.342903 S 3.250 1.43467 0.168208 0.333391 S 3.750 1.67742 0.325305 0.408068 S 4.500 1.43663 0.345494 0.360504 S 6.000 1.25878 0.465929 0.29758 N 1.125 0.838419 0.0401368 0.159075 N 1.375 1.02012 0.0475133 0.192059 N 1.625 1.02935 0.0536311 0.194167 N 1.875 1.09368 0.051584 0.219694 N 2.125 1.11016 0.0668415 0.223009 N 2.375 1.20424 0.0911031 0.264129 N 2.625 1.27133 0.124698 0.270821 N 2.875 1.0675 0.130827 0.254415 N 3.250 0.869104 0.106235 0.207129 N 3.750 1.05983 0.212875 0.2645	S	2.125	1.60043	0.0942284	0.322682
S 2.875 1.44738 0.178477 0.342903 S 3.250 1.43467 0.168208 0.333391 S 3.750 1.67742 0.325305 0.408068 S 4.500 1.43663 0.345494 0.360504 S 6.000 1.25878 0.465929 0.29758 N 1.125 0.838419 0.0401368 0.159075 N 1.375 1.02012 0.0475133 0.192059 N 1.625 1.02935 0.0536311 0.194167 N 1.875 1.09368 0.051584 0.219694 N 2.125 1.11016 0.0668415 0.223009 N 2.375 1.20424 0.0911031 0.264129 N 2.875 1.0675 0.130827 0.254415 N 3.250 0.869104 0.106235 0.207129 N 3.750 1.05983 0.212875 0.264565 N 4.500 0.894925 0.219583 0.235684	S	2.375	1.65879	0.125448	0.362043
S 3.250 1.43467 0.168208 0.333391 S 3.750 1.67742 0.325305 0.408068 S 4.500 1.43663 0.345494 0.360504 S 6.000 1.25878 0.465929 0.29758 N 1.125 0.838419 0.0401368 0.159075 N 1.375 1.02012 0.0475133 0.192059 N 1.625 1.02935 0.0536311 0.194167 N 1.875 1.09368 0.051584 0.219694 N 2.125 1.11016 0.0668415 0.223009 N 2.375 1.20424 0.0911031 0.264129 N 2.625 1.27133 0.124698 0.270821 N 2.875 1.0675 0.130827 0.254415 N 3.250 0.869104 0.106235 0.207129 N 3.750 1.05983 0.212875 0.264565 N 4.500 0.894925 0.219583 0.235684	S	2.625	1.84251	0.179551	0.39092
S 3.750 1.67742 0.325305 0.408068 S 4.500 1.43663 0.345494 0.360504 S 6.000 1.25878 0.465929 0.29758 N 1.125 0.838419 0.0401368 0.159075 N 1.375 1.02012 0.0475133 0.192059 N 1.625 1.02935 0.0536311 0.194167 N 1.875 1.09368 0.051584 0.219694 N 2.125 1.11016 0.0668415 0.223009 N 2.375 1.20424 0.0911031 0.264129 N 2.625 1.27133 0.124698 0.270821 N 2.875 1.0675 0.130827 0.254415 N 3.250 0.869104 0.106235 0.207129 N 3.750 1.05983 0.212875 0.264565 N 4.500 0.894925 0.219583 0.235684	S	2.875	1.44738	0.178477	0.342903
S 4.500 1.43663 0.345494 0.360504 S 6.000 1.25878 0.465929 0.29758 N 1.125 0.838419 0.0401368 0.159075 N 1.375 1.02012 0.0475133 0.192059 N 1.625 1.02935 0.0536311 0.194167 N 1.875 1.09368 0.051584 0.219694 N 2.125 1.11016 0.0668415 0.223009 N 2.375 1.20424 0.0911031 0.264129 N 2.625 1.27133 0.124698 0.270821 N 2.875 1.0675 0.130827 0.254415 N 3.250 0.869104 0.106235 0.207129 N 3.750 1.05983 0.212875 0.264565 N 4.500 0.894925 0.219583 0.235684	S	3.250	1.43467	0.168208	0.333391
S 6.000 1.25878 0.465929 0.29758 N 1.125 0.838419 0.0401368 0.159075 N 1.375 1.02012 0.0475133 0.192059 N 1.625 1.02935 0.0536311 0.194167 N 1.875 1.09368 0.051584 0.219694 N 2.125 1.11016 0.0668415 0.223009 N 2.375 1.20424 0.0911031 0.264129 N 2.625 1.27133 0.124698 0.270821 N 2.875 1.0675 0.130827 0.254415 N 3.250 0.869104 0.106235 0.207129 N 3.750 1.05983 0.212875 0.264565 N 4.500 0.894925 0.219583 0.235684	S	3.750	1.67742	0.325305	0.408068
N 1.125 0.838419 0.0401368 0.159075 N 1.375 1.02012 0.0475133 0.192059 N 1.625 1.02935 0.0536311 0.194167 N 1.875 1.09368 0.051584 0.219694 N 2.125 1.11016 0.0668415 0.223009 N 2.375 1.20424 0.0911031 0.264129 N 2.625 1.27133 0.124698 0.270821 N 2.875 1.0675 0.130827 0.254415 N 3.250 0.869104 0.106235 0.207129 N 3.750 1.05983 0.212875 0.264565 N 4.500 0.894925 0.219583 0.235684	S	4.500	1.43663	0.345494	0.360504
N 1.375 1.02012 0.0475133 0.192059 N 1.625 1.02935 0.0536311 0.194167 N 1.875 1.09368 0.051584 0.219694 N 2.125 1.11016 0.0668415 0.223009 N 2.375 1.20424 0.0911031 0.264129 N 2.625 1.27133 0.124698 0.270821 N 2.875 1.0675 0.130827 0.254415 N 3.250 0.869104 0.106235 0.207129 N 3.750 1.05983 0.212875 0.264565 N 4.500 0.894925 0.219583 0.235684	S	6.000	1.25878	0.465929	0.29758
N 1.625 1.02935 0.0536311 0.194167 N 1.875 1.09368 0.051584 0.219694 N 2.125 1.11016 0.0668415 0.223009 N 2.375 1.20424 0.0911031 0.264129 N 2.625 1.27133 0.124698 0.270821 N 2.875 1.0675 0.130827 0.254415 N 3.250 0.869104 0.106235 0.207129 N 3.750 1.05983 0.212875 0.264565 N 4.500 0.894925 0.219583 0.235684	N	1.125	0.838419	0.0401368	0.159075
N 1.875 1.09368 0.051584 0.219694 N 2.125 1.11016 0.0668415 0.223009 N 2.375 1.20424 0.0911031 0.264129 N 2.625 1.27133 0.124698 0.270821 N 2.875 1.0675 0.130827 0.254415 N 3.250 0.869104 0.106235 0.207129 N 3.750 1.05983 0.212875 0.264565 N 4.500 0.894925 0.219583 0.235684	N	1.375	1.02012	0.0475133	0.192059
N 2.125 1.11016 0.0668415 0.223009 N 2.375 1.20424 0.0911031 0.264129 N 2.625 1.27133 0.124698 0.270821 N 2.875 1.0675 0.130827 0.254415 N 3.250 0.869104 0.106235 0.207129 N 3.750 1.05983 0.212875 0.264565 N 4.500 0.894925 0.219583 0.235684	N	1.625	1.02935	0.0536311	0.194167
N 2.375 1.20424 0.0911031 0.264129 N 2.625 1.27133 0.124698 0.270821 N 2.875 1.0675 0.130827 0.254415 N 3.250 0.869104 0.106235 0.207129 N 3.750 1.05983 0.212875 0.264565 N 4.500 0.894925 0.219583 0.235684	N	1.875	1.09368	0.051584	0.219694
N 2.625 1.27133 0.124698 0.270821 N 2.875 1.0675 0.130827 0.254415 N 3.250 0.869104 0.106235 0.207129 N 3.750 1.05983 0.212875 0.264565 N 4.500 0.894925 0.219583 0.235684	N	2.125	1.11016	0.0668415	0.223009
N 2.875 1.0675 0.130827 0.254415 N 3.250 0.869104 0.106235 0.207129 N 3.750 1.05983 0.212875 0.264565 N 4.500 0.894925 0.219583 0.235684	N	2.375	1.20424	0.0911031	0.264129
N 3.250 0.869104 0.106235 0.207129 N 3.750 1.05983 0.212875 0.264565 N 4.500 0.894925 0.219583 0.235684	N	2.625	1.27133	0.124698	0.270821
N 3.750 1.05983 0.212875 0.264565 N 4.500 0.894925 0.219583 0.235684	N	2.875	1.0675	0.130827	0.254415
$N = 4.500 0.894925 \qquad 0.219583 \qquad 0.235684$	N	3.250	0.869104	0.106235	0.207129
	N	3.750	1.05983	0.212875	0.264565
N 6.000 0.733193 0.283512 0.189031	N	4.500	0.894925	0.219583	0.235684
	N	6.000	0.733193	0.283512	0.189031

Table 11: Heavy flavor muon $R_{d\mathrm{A}}$ in 60–88% centrality class at backward (South, -2.0 < y < -1.4) and forward (Nouth, 1.4 < y < 2.0) rapidity.. Global uncertainty 12.4% is not included.

rapidity	p_T	R_{dA}	stat. uncertainty	sys. uncertainty
S	1.125	1.01593	0.0444864	0.230554
S	1.375	1.26292	0.0566647	0.291036
S	1.625	1.10718	0.0615109	0.255039
S	1.875	0.999204	0.0550255	0.246961
S	2.125	0.946403	0.0707376	0.231795
S	2.375	1.23797	0.105123	0.318212
S	2.625	1.47786	0.156612	0.364549
S	2.875	1.18313	0.15994	0.327472
S	3.250	0.985263	0.137371	0.272219
S	3.750	1.41988	0.300034	0.398105
S	4.500	1.19519	0.323683	0.344295
S	6.000	0.874146	0.393189	0.243415
N	1.125	1.21957	0.0512223	0.265693
N	1.375	1.29412	0.0566427	0.283042
N	1.625	1.18502	0.0610169	0.261016
N	1.875	1.19315	0.056677	0.279985
N	2.125	1.28275	0.076199	0.301409
N	2.375	1.16378	0.0918931	0.299825
N	2.625	1.05756	0.112921	0.267811
N	2.875	1.08408	0.137701	0.300777
N	3.250	1.07404	0.129499	0.291656
N	3.750	1.13863	0.233737	0.32574
N	4.500	1.24783	0.301555	0.358021
N	6.000	0.508304	0.248902	0.165648

Table 12: Heavy flavor muon p_T integranted R_{dA} for $1.0 < p_T < 3.0 \text{ GeV}/c$ at backward (South, -2.0 < y < -1.4) and forward (Nouth, 1.4 < y < 2.0) rapidity.

rapidity	$\langle N_{\rm coll} \rangle$	R_{dA}	stat. uncertainty	sys. uncertainty
S	15.061	1.61589	0.0431298	0.203374
S	10.248	1.33546	0.0375694	0.169593
S	6.579	1.22164	0.0358754	0.155549
S	3.198	1.07617	0.0325824	0.165974
N	15.061	0.59627	0.0205498	0.0758311
N	10.248	0.756535	0.0250276	0.0964502
N	6.579	0.907248	0.029359	0.115688
N	3.198	1.23132	0.0361499	0.185668

Table 13: Heavy flavor muon p_T integranted R_{dA} for $3.0 < p_T < 5.0 \text{ GeV}/c$ at backward (South, -2.0 < y < -1.4) and forward (Nouth, 1.4 < y < 2.0) rapidity.

rapidity	$\langle N_{\rm coll} \rangle$	R_{dA}	stat. uncertainty	sys. uncertainty
S	15.061	1.44459	0.130096	0.249339
\mathbf{S}	10.248	1.54113	0.142309	0.263446
S	6.579	1.48402	0.147834	0.251471
S	3.198	1.09445	0.132282	0.213344
N	15.061	0.81931	0.0762939	0.139793
N	10.248	0.936014	0.0906309	0.160128
N	6.579	0.910326	0.0972223	0.157632
N	3.198	1.10466	0.115742	0.218173